

# **FINAL REMOVAL ASSESSMENT SAMPLING REPORT**

## **SWEET KLEEN LAUNDRY SITE** **Buffalo, Erie County, New York**

SSID No: 02UQ  
EPA ID No.: NYD013771217

DC No: RST3-04-F-0090  
TDD No: TO-0010-0132  
EPA Contract No: EP-S2-14-01

Prepared for:

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Prepared by:

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March 2018

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## **1.0 Introduction**

On February 14 through February 15, 2018, the U.S. Environmental Protection Agency (EPA), Region II Removal Action Branch, with the support of Weston Solutions Inc., Removal Support Team 3 (RST 3), conducted a vapor intrusion air sampling event as part of a Removal Assessment at the Sweet Kleen Laundry Site (the Site). Soil gas, indoor and ambient air samples were collected during the sampling event from three commercial properties, two of which were located in proximity to the Site. The air samples were submitted for laboratory analysis in order to verify if concentrations of volatile organic compounds (VOCs), including tetrachloroethene (PCE), detected on-site, have migrated to offsite properties.

### **1.1 Site Location and Description**

The Site is the location of a former industrial laundering and dry cleaning services facility which is situated at 764 Kensington Avenue, in Buffalo, Erie County, New York. The coordinates of the Site are latitude +42.93328 and longitude -078.82550. The Site is bordered to the north by commercial properties, to the south by residential and commercial properties, to the east by Liberty Avenue and commercial properties, and to the west by Federal Avenue and residential properties. In addition to the Site, Property P001, two other properties, Property P002 (20 Liberty Avenue) and Property P005 (24 Liberty Avenue), were investigated during this sampling event.

Refer to Attachment A, Figure 1: Site Location Map and Figure 2: Sample Location Map.

### **1.2 Site History and Background**

The facility building was subject to a Removal Action by the EPA in 2005 and 2006, which included the demolition of a 100-foot chimney as well as the removal of on-site buildings, asbestos-contaminated material (ACM), and 50 drums of waste products and electrical transformers. The city of Buffalo (the City) had acquired the Site in November 2002 through tax foreclosure. In September 2016, the property was acquired from the City by the Sheet Metal Workers International #71 who also own adjacent properties at 20 and 24 Liberty Avenue.

In 2006, EPA excavated PCE hot spot of contaminated soil located beneath the dry cleaning equipment. EPA removed the PCE contamination to bedrock and removed the lateral extent of contamination. The contaminated soils were shipped off-site for disposal.

Due to the fact that residual PCE contamination may exist below the bedrock, EPA installed a passive soil vapor extraction (SVE) system at the Site. The passive SVE system is a grid of perforated pipe at the bedrock interface level that ties to a riser above the soil surface. Weston Solutions, Inc., Removal Support Team 2 (RST 2) [currently RST 3] collected air samples from the on-site SVE system in August 2007, June 2008, September 2009, and November 2011. These samples were all found to have PCE and trichloroethylene (TCE) results exceeding the EPA Regional Screening Levels (RSLs) for both commercial and residential ambient air.

In October 2015, the Site and four properties in the vicinity of the Site were sampled for VOC analysis via EPA Method Toxic Organics (TO)-15 Scan. Sub-slab soil gas sampling ports were

installed in five properties from which soil gas samples were collected, and ambient air samples were collected from the on-site SVE system. Elevated concentrations (*i.e.*, greater than 33 times [33x] the RSL for residential and commercial ambient air) of PCE and TCE were detected in the soil gas samples collected from four of the five properties sampled.

In February 2016, RST 3 performed vapor intrusion air sampling in residential and commercial properties located in the vicinity of the Site. Soil gas samples were collected from three of the five selected residential properties and three commercial properties. Indoor air samples were collected from four residential properties and three commercial properties. Ambient air samples were collected at one residential property. A total of 44 air samples, including 14 sub-slab soil gas samples, 28 indoor air samples, and two ambient air samples, were collected from the selected properties for laboratory analysis. The soil gas samples were analyzed for VOCs via EPA Method TO-15 Scan and the indoor/ambient air samples were analyzed for a limited list of VOCs via EPA method TO-15 Selective Ion Monitoring (SIM). The analytical results of the soil gas samples were compared with 33x the respective EPA RSLs for residential and commercial air. Specifically for PCE, analytical results were compared with the EPA-established Site-specific Action Levels of 363 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) for residential soil gas and 1,551  $\mu\text{g}/\text{m}^3$  for commercial soil gas. The analytical results for indoor/ambient air samples were compared with the respective EPA RSLs for residential and commercial air and the EPA-established Site-specific Action Levels for PCE of 11  $\mu\text{g}/\text{m}^3$  for residential indoor air and 47  $\mu\text{g}/\text{m}^3$  for commercial indoor air.

Based on the analytical results of the February 2016 vapor intrusion air sampling event, PCE was detected at concentrations exceeding the EPA Site-specific Action Level of 1,551  $\mu\text{g}/\text{m}^3$  for commercial soil gas in samples collected from two commercial properties. TCE was detected at a concentration exceeding 33x the EPA RSL for commercial air in samples collected from one commercial property. Other TO-15 VOCs, including 1,4-dichlorobenzene and benzene, and benzyl chloride and ethyl benzene, were respectively detected at concentrations exceeding 33x the EPA RSL for commercial air in samples collected from two separate commercial properties. The concentrations of PCE was not detected above the Site-specific Action Levels of 363  $\mu\text{g}/\text{m}^3$  in soil gas samples collected from the residential properties; however, chloroform was detected at concentrations above 33x the EPA RSL for residential air in samples collected from three residential properties. Ethylbenzene was detected at a concentration above 33x the EPA RSL for residential air in a sample collected from one residential property. Based on analytical results, TO-15 VOCs were detected at concentrations exceeding EPA RSLs for residential air, including carbon tetrachloride in indoor air samples collected from three of the four residential properties, 1,2-dichloroethane in indoor air samples collected from two residential properties, and TCE in ambient air collected at one residential property.

## **2.0 Scope of Work**

The scope of work for the vapor intrusion air sampling event included the collection of five soil gas samples and nine indoor air samples from the two adjacent commercial properties located at 20 and 24 Liberty Avenue, and the collection of one ambient air sample from the Site. All the air samples collected during the sampling event were submitted to the assigned laboratory for TO-15 VOCs analysis, including chloroform, benzene, and naphthalene.

### 3.0 On-Site Personnel

Name	Affiliation	Duties On-site
Peter Lisichenko	U.S. Environmental Protection Agency, Region II	On-Scene Coordinator, Sample Collection, and Sample Management

### 4.0 Summary of Site Activities and Observations

The vapor intrusion air sampling event was completed by the EPA On-Scene Coordinator (OSC). Soil gas sample could not be collected from P005-SG001 due to observed water in the sampling port and reported minor flooding in the basement area prior to the sampling event. The placement of Summa canisters at sampling locations in the selected properties were documented with digital photographs.

Refer to Attachment A, Figure 2: Sample Location Map and Attachment D: Photographic Documentation Log.

### 5.0 Air Sampling Methodology

All on-site field work were performed in accordance with the RST 3 site-specific Health and Safety Plan (HASP), site-specific Uniform Federal Policy (UFP) Quality Assurance Project Plan (QAPP), and EPA's Emergency Response Team (ERT)/Scientific, Engineering, Response & Analytical Services (SERAS) contractor's Standard Operation Procedure (SOP) Number (No.) 2001: *General Field Sampling Guidelines* and SOP No. 1704: *Summa Canister Sampling*. All vapor intrusion samples were collected using pre-cleaned, 6-liter stainless steel Summa canisters equipped with shut-off valves. All the Summa canisters utilized for the sampling event were purged, cleaned, and prepared for sampling by the laboratory in accordance with EPA Method TO-15. Summa canisters designated soil gas samples were batch-cleaned, and Summa canisters designated for indoor and ambient air samples were individually-cleaned by the laboratory. A passive laboratory-calibrated flow controller was attached to each Summa canister prior to sample collection.

For sub-slab soil gas samples, the flow controller attached to the Summa canister was connected to each subsurface sampling port via Teflon® tubing and stainless steel Swagelok® fittings. For indoor air samples the flow controllers attached to the Summa canisters were not modified. Prior to and at the end of each sampling period, the surrounding temperature of each sampling location and the pressure of each Summa canister were measured and recorded. Temperature measurement was obtained using a non-contact infrared temperature gun. Pressure measurement was obtained from an analogue manometer which was part of the flow controller assembly. After each Summa canister setup was completed, the canister shut-off valve was opened and each sample was collected over an approximately 24-hour period. At the end of the sampling period, each canister shut-off valve was closed. All the vapor intrusion samples were collected for definitive data quality assurance/quality control (QA/QC) objectives. All sample information was transcribed into EPA's SCRIBE sample management database from which sample labels and chain of custody (COC) records were generated. A sample label affixed to an identification tag was attached to each Summa canister. All the vapor intrusion samples were submitted to the assigned laboratory for analysis.

## 6.0 Laboratories Receiving Samples

Laboratory Name/Location	Sample Matrix	Analyses
ALS Environmental 2655 Park Center Drive Suite A Simi Valley, CA 93065	Soil Gas, Indoor Air, and Ambient Air	TO-15 VOCs, including chloroform, benzene, and naphthalene

TO: Toxic Organics

VOCs: Volatile Organic Compounds

## 7.0 Sample Collection and Dispatch

On February 15, 2018, the EPA OSC collected a total of five soil gas samples, nine indoor air samples, and one ambient air sample from three commercial properties located in the vicinity of the Site. All the air samples were shipped under COC record No. 2-021518-144102-0007 via FedEx Airbill No. 4056-4798-3693 to ALS Environmental located in Simi Valley, California for TO-15 VOCs analysis, including chloroform, benzene, and naphthalene, via EPA Method TO-15 Scan for soil gas samples, and TO-15 SIM for indoor and ambient air samples.

Refer to Attachment B, Table 1: Sample Collection Summary Table and Attachment C: Chain of Custody Record.

## 8.0 Analytical Results Summary

The validated analytical results of the soil gas samples were compared against 33x the EPA RSL for industrial air (revised November 2017), and the validated analytical results of the indoor and ambient air samples were compared against the EPA RSL for industrial air.

Based on the validated analytical results, PCE was detected in all the soil gas samples collected from Properties P002 and P005 at concentrations exceeding 33x the EPA RSL of 1,551 µg/m<sup>3</sup>. The concentrations of PCE in the soil gas samples ranged from 640 µg/m<sup>3</sup> in P005-SG003-180214-01 (collected from Property P005) to 23,000 µg/m<sup>3</sup> in P002-SG002-180214-01 (collected from Property P002).

Based on the validated analytical results, TCE was detected in the three soil gas samples (P002-SG001-180214-01, P002-SG002-180214-01, and P002-SG003-180214-01) collected from Property P002 at concentrations exceeding 33x the EPA RSL of 99 µg/m<sup>3</sup>. The concentrations of TCE in the soil gas samples ranged from 130 µg/m<sup>3</sup> in P002-SG001-180214-01 to 530 µg/m<sup>3</sup> in P002-SG002-180214-01.

Based on the validated analytical results, benzene was detected in three indoor air samples (P005-IA002-180214-01, P005-IA003-180214-01, and P005-IA005-180214-01) collected from Property P005 at concentrations exceeding the EPA RML of 1.6 µg/m<sup>3</sup>. The exceeding concentrations of benzene in the indoor air samples ranged from 1.7 µg/m<sup>3</sup> in P005-IA003-180214-01 to 2.2 µg/m<sup>3</sup> in P005-IA005-180214-01.

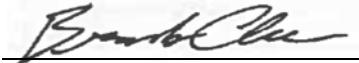
Based on the validated analytical results, naphthalene was detected in four indoor air samples (P005-IA001-180214-01, P005-IA002-180214-01, P005-IA003-180214-01, and P005-IA005-180214-01) collected from Property P005 at concentrations exceeding the EPA RML of 0.36 µg/m<sup>3</sup>. The exceeding concentrations of naphthalene in the indoor air samples, ranged from 0.42 µg/m<sup>3</sup> in P005-IA001-180214-01 to 0.84 µg/m<sup>3</sup> in P005-IA003-180214-01.

Based on the validated analytical results, TO-15 VOCs, including chloroform, benzene, and naphthalene, were not detected in the one ambient air sample at concentrations exceeding the EPA RMLs.

Refer to Attachment A, Figure 2: Sample Location Map, Attachment B, Table 2: Validated Soil Gas Analytical Results Summary Table, Table 3: Validated Ambient and Indoor Air Analytical Results Summary Table, and Attachment E, Validated Data Package.

## 9.0 Conclusion

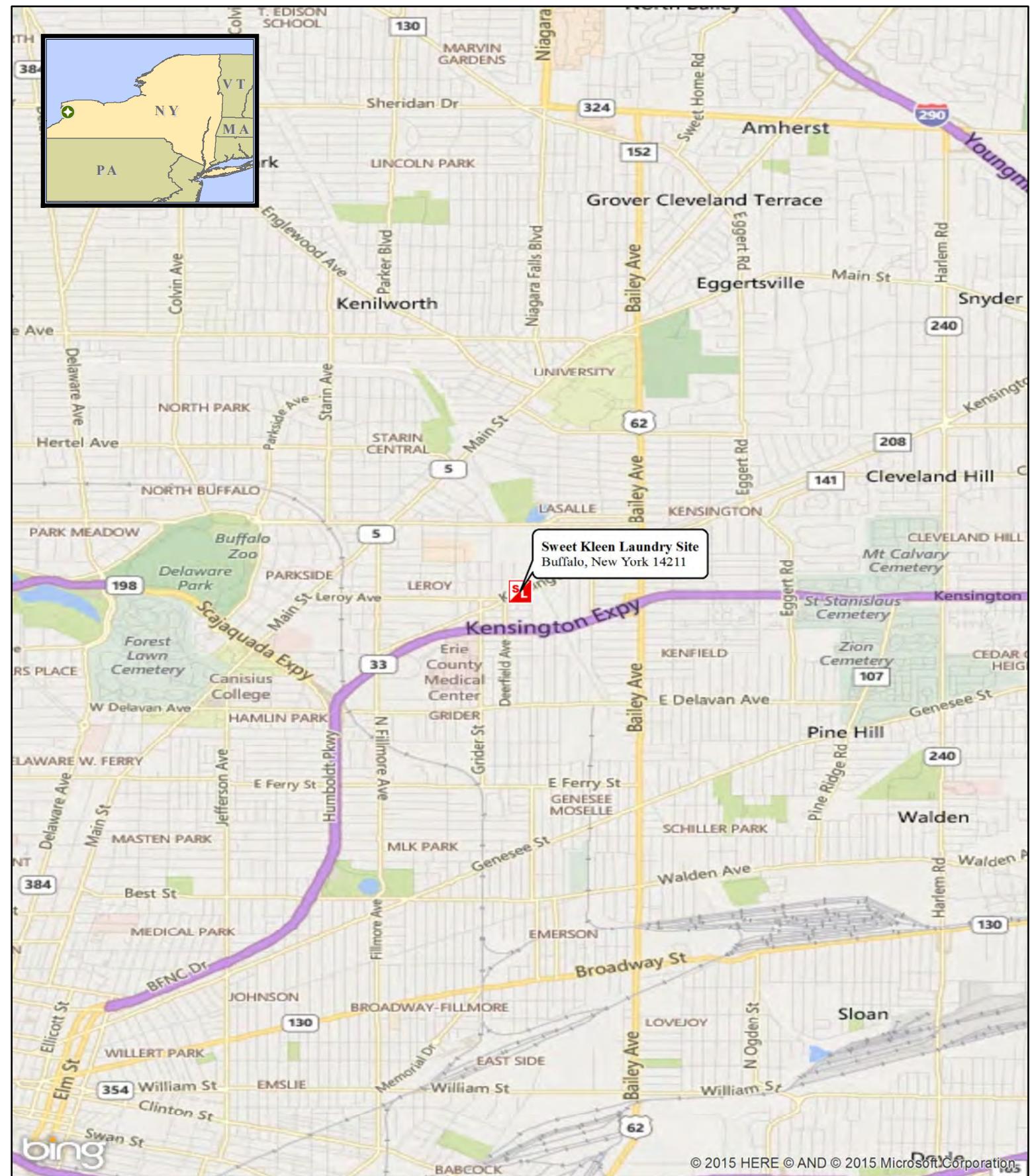
EPA will utilize the results from this Removal Assessment to determine future actions at the Site, which may include the installation of a sub-slab depressurization system (SSDS), to mitigate the threat of vapor intrusion in the impacted properties.

**Report prepared by:**  3/20/2018  
Brando Chacon  
Date  
RST 3 Site Project Manager

**Report reviewed by:**  3/20/2018  
Bernard Nwosu  
Date  
RST 3 Group Leader

## **ATTACHMENT A**

Figure 1: Site Location Map  
Figure 2: Sample Location Map



## Legend



## Site Location



**WESTON**  
SOLUTIONS® **Weston Solutions, Inc.**  
**East Division**

In Association With  
Scientific and Environmental Associates, Inc.,  
Environmental Compliance Consultants, Inc.,  
Avatar Environmental, LLC, On-Site Environmental,  
Inc. and Sovereign Consulting, Inc.

Site Location Map	
DATE MODIFIED:	10/16/2015
Sweet Kleen Laundry Site	Buffalo, New York
U.S. ENVIRONMENTAL PROTECTION AGENCY	REMOVAL SUPPORT TEAM 3
	CONTRACT # EP-S2-14-01
GIS ANALYST:	T. Benton
EPA OSC:	M. Bellis
RST SPM:	R. Croskey
FILENAME:	151016_SITE LOCATION MAP.MXD

**Figure 1:**  
**Site Location Map**

Sweet Kleen Laundry Site  
Buffalo, New York

U.S. ENVIRONMENTAL PROTECTION AGENCY  
REMOVAL SUPPORT TEAM 3  
CONTRACT # EP-S2-14-01

<b>GIS ANALYST:</b>	T. Benton
<b>EPA OSC:</b>	M. Bellis
<b>RST SPM:</b>	R. Croskey
<b>FILENAME:</b>	151016 SITE LOCATION MAP.MXD

Shawnee Ave

P005-IA004

P005-IA006

P005-IA005

P005-IA001

P005-IA002  
P005-SG002

P002-IA003  
P002-SG003

P005-IA003  
P005-SG003

P002-IA001  
P002-SG001

P002-IA002  
P002-SG002

P001-AA001

Source

764 KENSINGTON

Kensington Ave

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

#### Legend

● Sample Location

■ Sampled Property

□ Property Boundary



0 25 50 100 Feet



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**Weston Solutions, Inc.**  
**Federal East Division**

In Association With  
Scientific and Environmental Associates, Inc.,  
Environmental Compliance Consultants, Inc.,  
Avatar Environmental, LLC, On-Site Environmental,  
Inc. and Sovereign Consulting, Inc.

#### Figure 2: Sample Location Map

Sweet Kleen Laundry  
Buffalo, New York

U.S. ENVIRONMENTAL PROTECTION AGENCY  
REMOVAL SUPPORT TEAM 3  
CONTRACT # EP-S2-14-01

DATE MODIFIED: 3/20/2018

GIS ANALYST:	P. Lisichenko
EPA OSC:	P. Lisichenko
RST SPM:	B. Chacon
FILENAME:	180315_SK_SAMPLELOCATION.MXD

## **ATTACHMENT B**

Table 1: Sample Collection Summary Table

Table 2: Validated Soil Gas Analytical Results Summary Table

Table 3: Validated Ambient and Indoor Air Analytical Results Summary Table

**Table 1: Sample Collection Summary Table**  
**Sweet Kleen Laundry Site**  
**Buffalo, Erie County, New York**  
**February 2018**

Property No.	RST 3 Sample No.	Matrix	Canister No.	Flow Control No.	Start				End			
					Date	Time	Pressure in. Hg	Temp °F	Date	Time	Pressure in. Hg	Temp °F
P001	P001-AA001-180214-01	Ambient Air	AC01890	SFC00182	2/14/2018	12:42	-29	NC	2/15/2018	12:22	-6	43
P002	P002-IA001-180214-01	Indoor Air	AC02147	FCA00691	2/14/2018	12:16	-29	NC	2/15/2018	10:53	-3	34
P002	P002-IA002-180214-01	Indoor Air	S02184	FCA01029	2/14/2018	12:27	-29	NC	2/15/2018	10:58	-2	40
P002	P002-IA003-180214-01	Indoor Air	AS01293	FCA00861	2/14/2018	12:37	-29	NC	2/15/2018	11:05	-6	40
P002	P002-SG001-180214-01	Soil Gas	SC00104	FCR00244	2/14/2018	12:17	-29	NC	2/15/2018	10:52	-5	34
P002	P002-SG002-180214-01	Soil Gas	AS01319	FCR00194	2/14/2018	12:26	-29	NC	2/15/2018	10:59	-2	34
P002	P002-SG003-180214-01	Soil Gas	SC01499	FCR00343	2/14/2018	12:35	-29	NC	2/15/2018	11:04	-5	40
P005	P005-IA001-180214-01	Indoor Air	AS01292	FCA00530	2/14/2018	11:16	-24	NC	2/15/2018	10:05	-4	57
P005	P005-IA002-180214-01	Indoor Air	AS01322	FCA01072	2/14/2018	11:32	-29	NC	2/15/2018	10:12	-3.5	63
P005	P005-IA003-180214-01	Indoor Air	AS01058	FCA00576	2/14/2018	11:43	-29	NC	2/15/2018	10:25	-2	67
P005	P005-IA004-180214-01	Indoor Air	AC01844	FCA00959	2/14/2018	11:58	-29	NC	2/15/2018	10:37	-5	68
P005	P005-IA005-180214-01	Indoor Air	AC01294	FCA01081	2/14/2018	12:03	-28	NC	2/15/2018	10:41	-5	62
P005	P005-IA006-180214-01	Indoor Air	AS01321	SFC00132	2/14/2018	12:01	-29	NC	2/15/2018	10:45	-3	69
P005	P005-SG002-180214-01	Soil Gas	SC01583	FCR00261	2/14/2018	11:29	-29	NC	2/15/2018	10:13	-6	63
P005	P005-SG003-180214-01	Soil Gas	SC01903	FCR00182	2/14/2018	11:45	-29	NC	2/15/2018	10:24	-6	67

**Notes:**

RST 3- Removal Support Team 3.

in. Hg - inches of mercury.

°F - Degrees Fahrenheit.

**Table 2: Validated Soil Gas Analytical Results Summary Table**  
**Sweet Kleen Laundry Site**  
**Buffalo, Erie County, New York**  
**February 2018**

RST 3 Sample Number	33x EPA RSL Industrial Air <sup>1</sup>	P002-SG001- 180214-01	P002-SG002- 180214-01	P002-SG003- 180214-01	P005-SG002- 180214-01	P005-SG003- 180214-01
Sample Date		2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018
Sample Matrix		Soil Gas				
Dilution Factor		1.45	1.44	1.46	1.51	1.57
Units	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>TO-15 VOC</b>						
Propene	429,000	ND	ND	ND	0.47 J	ND
Dichlorodifluoromethane (CFC 12)	14,520	ND	ND	ND	3.4	2.6 J
Chloromethane	12,870	ND	ND	ND	ND	ND
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	ND	ND	ND	ND	ND
Vinyl Chloride	92.4	ND	ND	ND	ND	ND
1,3-Butadiene	13.53	ND	ND	ND	ND	ND
Bromomethane	726	ND	ND	ND	ND	ND
Chloroethane	1,452,000	ND	ND	ND	ND	ND
Ethanol	NS	ND	ND	ND	4.3 J	ND
Acetonitrile	8,580	ND	ND	ND	ND	ND
Acrolein	2.90	ND	ND	ND	0.45 J	ND
Acetone	4,620,000	ND	ND	ND	13	21 J
Trichlorofluoromethane (CFC 11)	NS	ND	ND	ND	1.5	1.3 J
2-Propanol (Isopropyl Alcohol)	29,040	ND	ND	ND	0.72 J	ND
Acrylonitrile	5.94	ND	ND	ND	ND	ND
1,1-Dichloroethene	29,040	ND	ND	ND	ND	ND
Methylene Chloride	39,600	ND	ND	ND	ND	ND
3-Chloro-1-propene (Allyl Chloride)	66	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (CFC 113)	726,000	ND	ND	ND	0.46 J	ND
Carbon Disulfide	102,300	ND	ND	ND	13. J	1.2 J
trans-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	254.1	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	1,551	ND	ND	ND	ND	ND
Vinyl Acetate	29,040	ND	ND	ND	1.5 J	ND
2-Butanone (MEK)	726,000	ND	ND	ND	0.86 J	1.5 J
cis-1,2-Dichloroethene	NS	25 J	ND	ND	ND	ND
Ethyl Acetate	10,230	ND	ND	ND	18	ND
n-Hexane	102,300	ND	ND	ND	0.91	1.5 J
Chloroform	17.49	ND	ND	ND	2.0	ND
Tetrahydrofuran (THF)	290,400	ND	ND	ND	0.91	ND
1,2-Dichloroethane	15.51	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	726,000	ND	ND	ND	0.62 J	ND
Benzene	52.8	ND	ND	ND	0.50 J	1.8 J
Carbon Tetrachloride	66	ND	ND	ND	3.7	ND
Cyclohexane	858,000	ND	ND	ND	ND	ND
1,2-Dichloropropane	108.9	ND	ND	ND	ND	ND
Bromodichloromethane	10.89	ND	ND	ND	0.36 J	ND

Notes:

TO-15 VOC - Toxic Organics-15 Volatile Organic Compounds.

RST 3 - Removal Support Team 3.

µg/m<sup>3</sup> - Micrograms per cubic meter.

NS - Not specified.

ND - Non-detect.

J - Estimated value.

<sup>1</sup>Analytical results are compared against 33 times (33x) the U.S. Environmental Protection Agency's (EPA) Regional Screening Levels (RSLs) for industrial air using a cancer target risk (TR) of  $10^{-6}$  and a target hazard index (THI) of 1.0, revised November 2017.

\*No EPA RSL is specified for cis- and trans -1,3 Dichloropropene; however the EPA RSL for 33x 1,3 Dichloropropene is 102.3 µg/m<sup>3</sup>

**Result exceeds 33x the EPA RSL for Industrial air.**

**Table 2: Validated Soil Gas Analytical Results Summary Table**  
**Sweet Kleen Laundry Site**  
**Buffalo, Erie County, New York**  
**February 2018**

RST 3 Sample Number	33x EPA RSL Industrial Air <sup>1</sup>	P002-SG001- 180214-01	P002-SG002- 180214-01	P002-SG003- 180214-01	P005-SG002- 180214-01	P005-SG003- 180214-01
Sample Date		2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018
Sample Matrix		Soil Gas				
Dilution Factor		1.45	1.44	1.46	1.51	1.57
Units		µg/m <sup>3</sup>				
<b>TO-15 VOC</b>						
Trichloroethene	99	<b>130</b>	<b>530</b>	<b>150</b>	33	13
1,4-Dioxane	82.5	ND	ND	ND	ND	ND
Methyl Methacrylate	102,300	ND	ND	ND	ND	ND
n-Heptane	59,400	ND	ND	ND	0.80	1.5 J
cis-1,3-Dichloropropene	NS*	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	429,000	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS*	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	25.41	ND	ND	ND	ND	ND
Toluene	726,000	ND	ND	ND	3.7	4.6
2-Hexanone	4,290	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.66	ND	ND	ND	ND	ND
n-Butyl Acetate	NS	ND	ND	ND	0.42 J	ND
n-Octane	NS	ND	ND	ND	0.50 J	1.1 J
Tetrachloroethene (PCE)	1,551	<b>10,000</b>	<b>23,000</b>	<b>12,000</b>	<b>3,800</b>	<b>640</b>
Chlorobenzene	7,260	ND	ND	ND	ND	ND
Ethylbenzene	161.7	ND	ND	ND	1.1	5.3
m,p-Xylenes	14,520	ND	ND	ND	2.8	11
Bromoform	363	ND	ND	ND	ND	ND
Styrene	145,200	ND	ND	ND	ND	ND
o-Xylene	14,520	ND	ND	ND	0.64 J	3.3
n-Nonane	2,904	ND	ND	ND	ND	1.2 J
1,1,2,2-Tetrachloroethane	6.93	ND	ND	ND	ND	ND
Cumene	59,400	ND	ND	ND	ND	1.0 J
alpha-Pinene	NS	ND	ND	ND	0.39 J	ND
n-Propylbenzene	145,200	ND	ND	ND	ND	1.2 J
4-Ethyltoluene	NS	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,580	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	8,580	ND	ND	ND	ND	3.0 J
Benzyl Chloride	8.25	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	NS	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	36.3	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	29,040	ND	ND	ND	ND	ND
d-Limonene	NS	ND	ND	ND	ND	2.9 J
1,2-Dibromo-3-chloropropane	0.066	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	290.4	ND	ND	ND	ND	ND
Naphthalene	11.88	ND	ND	ND	ND	ND
Hexachlorobutadiene	18.48	ND	ND	ND	ND	ND

Notes:

TO-15 VOC - Toxic Organics-15 Volatile Organic Compounds.

RST 3 - Removal Support Team 3.

µg/m<sup>3</sup> - Micrograms per cubic meter.

NS - Not specified.

ND - Non-detect.

J - Estimated value.

<sup>1</sup>Analytical results are compared against 33 times (33x) the U.S. Environmental Protection Agency's (EPA) Regional Screening Levels (RSLs) for industrial air using a cancer target risk (TR) of  $10^{-6}$  and a target hazard index (THI) of 1.0, revised November 2017.

\*No EPA RSL is specified for cis- and trans -1,3 Dichloropropene; however the EPA RSL for 1,3 Dichloropropene is 9.3 µg/m<sup>3</sup>

**Result exceeds 33x the EPA RSL for Industrial air.**

Table 3: Validated Ambient and Indoor Air Analytical Results Summary Table

Sweet Kleen Laundry Site  
 Buffalo, Erie County, New York  
 February 2018

RST 3 Sample Number	EPA RSL Industrial Air <sup>1</sup>	P001-AA001-180214-01	P002-IA001-180214-01	P002-IA002-180214-01	P002-IA003-180214-01	P005-IA001-180214-01	P005-IA002-180214-01	P005-IA003-180214-01	P005-IA004-180214-01	P005-IA005-180214-01	P005-IA006-180214-01
Sample Date		2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018
Sample Matrix		Ambient Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Ambient Air
Dilution Factor		1.4	1.23	1.27	1.2	1.38	1.46	1.33	1.41	1.35	1.4
Units		µg/m <sup>3</sup>									
<b>TO-15 VOCs</b>											
Dichlorodifluoromethane (CFC 12)	440	2.2	2.8	3.7	8.9	2.1	2.1	2.1	2.1	2.2	2.1
Chloromethane	390	0.46	0.43	0.44	0.22	0.39	0.45	0.47	0.41	0.45	0.4
Vinyl Chloride	2.8	ND	ND	ND	ND	0.19	ND	ND	ND	ND	ND
1,3-Butadiene	0.41	ND	ND	ND	ND	0.12	0.13	0.11	0.064 J	0.12	0.042 J
Bromomethane	22	0.024 J	0.023 J	0.022 J	0.032	0.041	0.027 J	0.024 J	0.023 J	0.029 J	0.026 J
Chloroethane	44,000	ND	0.014 J	0.016 J	0.028 J	0.028 J	0.018 J	0.032 J	0.016 J	0.017 J	0.013 J
Acrolein	0.088	0.15 J	0.24 J	0.10 J	0.22 J	0.4	0.69	ND	ND	0.61	0.67
Acetone	140,000	3.5 U	6.4 U	3.2 U	3.0 U	26	80	82	31	50	22
Trichlorofluoromethane	NS	1	1	1	1.1	1.5	1.5	1.4	2.5	1.5	2
1,1-Dichloroethene	880	ND									
Methylene Chloride	1,200	0.3	0.29	0.29	0.3	2.3	2.6	1.8	1.1	3.5	0.83
Trichlorotrifluoroethane	22,000	0.35	0.36	0.36	0.35	0.36	0.36	0.36	0.36	0.36	0.37
trans-1,2-Dichloroethene	NS	0.013 J	ND	ND	0.062	ND	0.016 J	0.015 J	ND	ND	ND
1,1-Dichloroethane	7.7	ND	ND	ND	ND	0.035	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	47	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	0.093	0.11	0.028 J	0.018 J	1.2	0.059	0.11	0.13	0.034	0.067
Chloroform	0.53	0.088 J	0.36	0.14	0.11 J	0.16	0.12 J	0.13 J	0.23	0.12 J	0.21
1,2-Dichloroethane	0.47	0.065	0.066	0.063	0.065	0.19	0.17	0.27	0.095	0.13	0.089
1,1,1-Trichloroethane	22,000	0.012 J	0.013 J	0.011 J	0.011 J	0.022 J	0.022 J	0.020 J	0.014 J	0.017 J	0.013 J
Benzene	1.6	0.58	0.61	0.6	0.7	1.5	2.1	1.7	1.4	2.2	1.1
Carbon Tetrachloride	2.0	0.4	0.41	0.4	0.4	0.48	0.41	0.41	0.43	0.41	0.42
1,2-Dichloropropane	3.3	0.019 J	0.019 J	0.019 J	0.020 J	0.022 J	0.023 J	0.022 J	0.029 J	0.023 J	0.027 J
Bromodichloromethane	0.33	ND	0.16	0.029 J	0.022 J	ND	ND	ND	ND	ND	ND
Trichloroethene	3.0	0.048	0.16	0.08	0.05	0.57	0.09	0.15	0.18	0.06	0.10
1,4-Dioxane	2.5	0.012	0.14	0.059 J	0.023 J	0.21	ND	0.035 J	0.084 J	0.016 J	0.016 J
cis-1,3-Dichloropropene	NS*	ND									
trans-1,3-Dichloropropene	NS*	ND									
1,1,2-Trichloroethane	0.77	ND									
Toluene	22,000	0.65	0.65	0.65	0.79	4.3	12	11	5.5	9.7	4.2
Dibromochloromethane	NS	ND	0.061	ND	0.012 J	0.015 J	ND	ND	0.022 J	ND	0.018 J
1,2-Dibromoethane	0.02	ND									
Tetrachloroethene (PCE)	47	0.49	7.5	4.3	2.2	4.2	2.8	3.3	2.2	1.6	1.6
Chlorobenzene	220	ND	ND	ND	ND	0.013 J	0.021 J	0.016 J	0.015 J	0.014 J	0.014 J
Ethylbenzene	4.9	0.098	0.11 J	0.11 J	0.13	0.57	1.3	1.7	0.62	1	0.47
m,p-Xylenes	440	0.25	0.31	0.29	0.29	2.2	5.1	7.9	2.2	3.9	1.6
Styrene	4,400	0.023	0.047 J	0.076 J	0.046 J	0.33	0.67	0.45	0.76	0.51	0.51
o-Xylene	440	0.11	0.14	0.13	0.13	1	2.3	4.1	0.93	1.6	0.68
1,1,2,2-Tetrachloroethane	0.21	ND									
1,3,5-Trimethylbenzene	260	0.029	0.081 J	0.059 J	0.048 J	0.22	0.38	0.3	0.27	0.34	0.18
1,2,4-Trimethylbenzene	260	0.1	0.27	0.2	0.17	0.77	1.3	1.1	0.91	1.2	0.63
1,3-Dichlorobenzene	NS	ND									
1,4-Dichlorobenzene	1.1	ND	0.013 J	0.012 J	0.015 J	0.019 J	0.017 J	0.016 J	0.029 J	0.017 J	0.022 J
1,2-Dichlorobenzene	880	ND									
1,2-Dibromo-3-chloropropane	0.002	ND									
1,2,4-Trichlorobenzene	8.8	ND	ND	ND	0.049 J	0.055 J	0.022 J	ND	ND	0.23	0.032 J
Naphthalene	0.36	ND	0.23	0.11 J	0.33	0.42	0.69	0.84	0.29	0.61	0.36
Hexachlorobutadiene	0.56	ND									

**Notes:**

TO-15 VOC - Toxic Organics-15 Volatile Organic Compounds.

RST 3 - Removal Support Team 3.

µg/m<sup>3</sup> - Micrograms per cubic meter.

NS - Not specified.

ND - Non-detect.

J - Estimated value.

<sup>1</sup>Analytical results are compared against the U.S. Environmental Protection Agency's (EPA) Regional Screening Levels (RSLs)for industrial air using a cancer target risk (TR) of 10<sup>-6</sup> and a target hazard index (THI) of 1.0, revised November 2017.\*No EPA RSL is specified for cis- and trans -1,3 Dichloropropene; however the EPA RSL for 1,3 Dichloropropene is 3.1 µg/m<sup>3</sup>**Result exceeds the EPA RSL for Industrial air.**

**ATTACHMENT C**

Chain of Custody Record

**WESTON SOLUTIONS, INC**

DateShipped: 2/15/2018

CarrierName: FedEx

AirbillNo: 4056 4798 3693

**CHAIN OF CUSTODY RECORD**

Case #: 480

Contact Name: Brando Chacon

Contact Phone: (732) 585-4409

**No: 2-021518-144102-0007**

Cooler #:

Lab: ALS Environmental

Lab Phone: 805-526-7161

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Canister #	Regulator	Start Pressure	Stop Pressure	Start Date	Start Time	Stop Date	Stop Time
	P001-AA001-180214-01	P001-AA001	VOCs via TO-15 (SIM)	Ambient Air	2/15/2018	12:22	1	Summa Canister	AC01890	SFC00182	-29	-6	2/14/2018	12:42:00 PM	2/15/2018	12:22:00 PM
	P002-IA001-180214-01	P002-IA001	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:53	1	Summa Canister	AC02147	FCA00691	-29	-3	2/14/2018	12:16:00 PM	2/15/2018	10:53:00 AM
	P002-IA002-180214-01	P002-IA002	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:58	1	Summa Canister	S02184	FCA01029	-29	-2	2/14/2018	12:27:00 PM	2/15/2018	10:58:00 AM
	P002-IA003-180214-01	P002-IA003	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	11:05	1	Summa Canister	AS01293	FCA00861	-29	-6	2/14/2018	12:37:00 PM	2/15/2018	11:05:00 AM
	P002-SG001-180214-01	P002-SG001	VOCs via TO-15 (SCAN)	Soil Gas	2/15/2018	10:52	1	Summa Canister	SC00104	FCR00244	-29	-5	2/14/2018	12:17:00 PM	2/15/2018	10:52:00 AM
	P002-SG002-180214-01	P002-SG002	VOCs via TO-15 (SCAN)	Soil Gas	2/15/2018	10:59	1	Summa Canister	AS01319	FCR00194	-29	-2	2/14/2018	12:26:00 PM	2/15/2018	10:59:00 AM
	P002-SG003-180214-01	P002-SG003	VOCs via TO-15 (SCAN)	Soil Gas	2/15/2018	11:04	1	Summa Canister	SC01499	FCR00343	-29	-5	2/14/2018	12:35:00 PM	2/15/2018	11:04:00 AM
	P005-IA002-180214-01	P005-IA002	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:12	1	Summa Canister	AS01322	FCA01072	-29	-3.5	2/14/2018	11:32:00 AM	2/15/2018	10:12:00 AM

Special Instructions: RFP: 480 - Weston Solutions PO Number RST 2 Con#EP-S2-14-01 Analysis: VOC TO-15	<b>SAMPLES TRANSFERRED FROM</b>	
	<b>CHAIN OF CUSTODY #</b>	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	<i>Bethany (USEPA)</i>	2/15/18 1600			

## WESTON SOLUTIONS, INC

DateShipped: 2/15/2018

CarrierName: FedEx

AirbillNo: 4056 4798 3693

## CHAIN OF CUSTODY RECORD

Case #: 480

Contact Name: Brando Chacon

Contact Phone: (732) 585-4409

No: 2-021518-144102-0007

Cooler #:

Lab: ALS Environmental

Lab Phone: 805-526-7161

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Canister #	Regulator	Start Pressure	Stop Pressure	Start Date	Start Time	Stop Date	Stop Time
P005-IA003-180214-01	P005-IA003	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:25		1	Summa Canister	AS01058	FCA00576	-29	-2	2/14/2018	11:43:00 AM	2/15/2018	10:25:00 AM
P005-IA004-180214-01	P005-IA004	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:37		1	Summa Canister	AC01844	FCA00959	-29	-25	2/14/2018	11:58:00 AM	2/15/2018	10:37:00 AM
P005-IA005-180214-01	P005-IA005	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:41		1	Summa Canister	AC01294	FCA01081	-28	-5	2/14/2018	12:03:00 PM	2/15/2018	10:41:00 AM
P005-IA006-180214-01	P005-IA006	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:45		1	Summa Canister	AS01321	SFC00132	-29	-3	2/14/2018	12:01:00 PM	2/15/2018	10:45:00 AM
P005-SG003-180214-01	P005-SG003	VOCs via TO-15 (SCAN)	Soil Gas	2/15/2018	10:24		1	Summa Canister	SC01903	FCR00182	-29	-6	2/14/2018	11:45:00 AM	2/15/2018	10:24:00 AM
P005-IA001-180214-01	P005-IA001	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:05		1	Summa Canister	AS01292	FCA00530	-24	-4	2/14/2018	11:16:00 AM	2/15/2018	10:05:00 AM
P005-SG002-180214-01	P005-SG002	VOCs via TO-15 (SCAN)	Soil Gas	2/15/2018	10:13		1	Summa Canister	SC01583	FCR00261	-29	-6	2/14/2018	11:29:00 AM	2/15/2018	10:13:00 AM

Special Instructions: RFP: 480 - Weston Solutions PO Number RST 2 Con#EP-S2-14-01 Analysis: VOC TO-15	SAMPLES TRANSFERRED FROM	
	CHAIN OF CUSTODY #	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS		2/15/18 1600hr			

## **ATTACHMENT D**

Photographic Documentation Log

# Daily Photo Log

PhotoLog

Sweet Kleen

Wednesday, February 14, 2018

2/14/2018 11:20:05 AM

+42.934294, -78.825117,

Location P005-IA001 at the time of deployment. Concrete ground surface was wet. Soil gas port contained water.



2/14/2018 11:34:21 AM

+42.934419, -78.825667,

Location P005-IA002 and P005-SG002 at the time of deployment.



# Daily Photo Log

PhotoLog

Sweet Kleen

Wednesday, February 14, 2018

2/14/2018 11:47:16 AM  
+42.934181, -78.825109,  
P005-SG003 at the time  
of deployment.



2/14/2018 11:47:29 AM  
+42.934135, -78.825120,  
P005-IA003 at the time  
of deployment.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Wednesday, February 14, 2018

2/14/2018 12:05:15 PM  
+42.934682, -78.826018,  
P005-IA005 at the time  
of deployment.



2/14/2018 12:18:14 PM  
+42.933689, -78.825782,  
P002-IA001 and P002-  
SG001 at the time of  
deployment.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Wednesday, February 14, 2018

2/14/2018 12:28:27 PM

+42.933882, -78.825460,

P002-IA001 and P002-SG002 at the time of deployment.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Thursday, February 15, 2018

2/15/2018 10:04:24 AM

+42.934294, -78.825118,  
P005-IA001 at collection  
time.



2/15/2018 10:04:55 AM

+42.934294, -78.825118,  
P005-IA001 located in  
basement area.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Thursday, February 15, 2018

2/15/2018 10:14:48 AM  
+42.934279, -78.825587,  
P005-SG002 and P005-  
IA002 at collection  
time.



2/15/2018 10:15:10 AM  
+42.934279, -78.825587,  
View of P005-SG002 and  
P005-IA002 location.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Thursday, February 15, 2018

2/15/2018 10:24:05 AM

+42.934299, -78.825067,  
P005-SG003 at collection  
time.



2/15/2018 10:25:28 AM

+42.934339, -78.825127,  
P005-IA003 at collection  
time.



# Daily Photo Log

Sweet Kleen

## PhotoLog

Thursday, February 15, 2018

2/15/2018 10:25:56 AM

+42.934339, -78.825127,

view of P005-SG003 and  
P005-IA003 location.



2/15/2018 10:29:23 AM

+42.934180, -78.825253,

For each sampling port,  
the green cap threads  
were wrapped in a layer  
of Teflon tape and  
connected to the port  
via Allen key (hand  
tightened).



# Daily Photo Log

## PhotoLog

Sweet Kleen

Thursday, February 15, 2018

2/15/2018 10:39:17 AM

+42.934418, -78.825305,  
view of P005-IA004 at  
collection time.



2/15/2018 10:39:36 AM

+42.934418, -78.825305,  
view of P005-IA004  
location. The canister  
was placed in the crawl  
space under the front  
offices.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Thursday, February 15, 2018

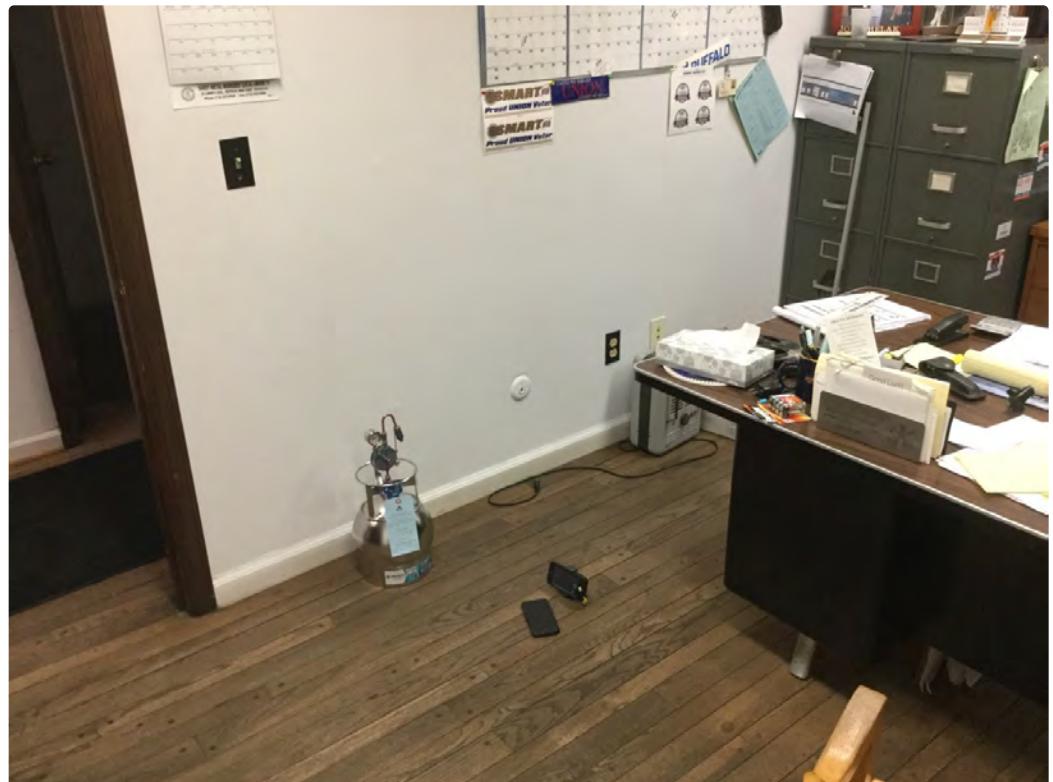
2/15/2018 10:43:29 AM

+42.934455, -78.825238,  
P005-IA006 at collection  
time.



2/15/2018 10:43:46 AM

+42.934455, -78.825238,  
view of P005-IA006  
location, office space.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Thursday, February 15, 2018

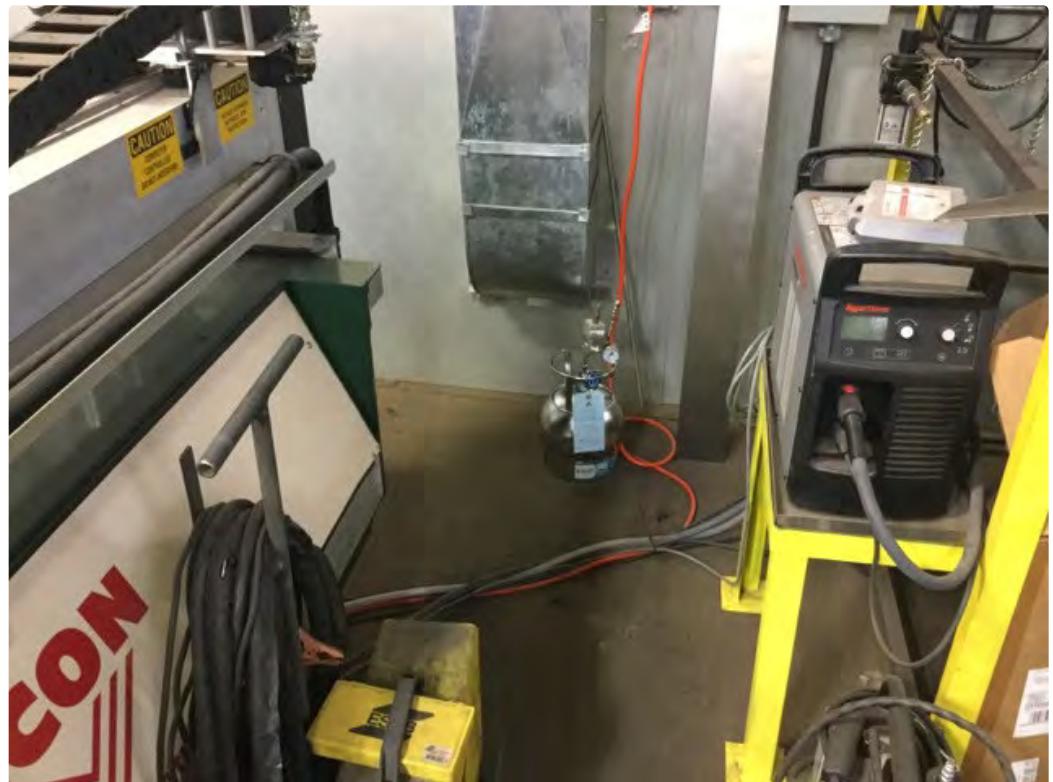
2/15/2018 10:46:59 AM

+42.934626, -78.825839,  
P005-IA005 at collection  
time.



2/15/2018 10:47:35 AM

+42.934645, -78.825987,  
view of the P005-IA005  
location.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Thursday, February 15, 2018

2/15/2018 10:54:03 AM  
+42.933934, -78.825434,  
P002-SG001 and P002-  
IA001 at collection  
time.



2/15/2018 10:54:16 AM  
+42.933934, -78.825434,  
View of P002-SG001 and  
P002-IA001 location.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Thursday, February 15, 2018

2/15/2018 11:01:08 AM  
+42.933807, -78.825599,  
P002-SG002 and P002-  
IA002 at collection  
time.



2/15/2018 11:01:23 AM  
+42.933807, -78.825599,  
View of P002-SG002 and  
P002-IA002 location.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Thursday, February 15, 2018

2/15/2018 11:05:50 AM

+42.934287, -78.825110,

P002-SG003 and P002-IA003 at collection time.



2/15/2018 11:23:17 AM

+42.933594, -78.825695,

P001-AA001 at time of sample collection.



# Daily Photo Log

## PhotoLog

Sweet Kleen

Thursday, February 15, 2018

2/15/2018 11:23:24 AM

+42.933594, -78.825695,

View of P001-AA001

sample location.

Passive ventilation  
system vent pipe in the  
foreground.



**ATTACHMENT E**

Validated Data Package



[www.westonsolutions.com](http://www.westonsolutions.com)

**REMOVAL SUPPORT TEAM 3  
EPA CONTRACT EP-S2-14-01**

RST 3-04-F-0086

**TRANSMITTAL MEMO**

To: Mr. Peter Lisichenko, On-Scene Coordinator  
Removal Action Branch  
U.S. EPA, Region II

From: Smita Sumbaly, Data Reviewer  
RST 3, Region II

Subject: Sweet Kleen Laundry Site  
Data Validation Assessment

Date: March 13, 2018

The purpose of this memo is to transmit the following information:

- Data validation results for the following parameters:

## Volatiles 15 Samples

- #### • Matrices and Number of Samples

**Indoor Air**                    9 Samples  
**Ambient Air**                1 Sample  
**Soil Gas**                    5 Samples

- Sampling Dates: February 14 through 15, 2018

The final data assessment narrative and original analytical data package are attached.

cc: RST 3 SPM: Brando Chacon  
RST 3 SITE FILE TDD #: TO-0010-0132  
RST 3 ANALYTICAL TDD #: TO-0010-0136  
TASK#: 4136

*an employee-owned company*



In association with Scientific and Environmental Associates, Inc.,  
Environmental Compliance Consultants, Inc., Avatar Environmental, LLC,  
On-Site Environmental, Inc., and Sovereign Consulting, Inc.

U. S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: March 13, 2018

TO: Peter Lisichenko, On-Scene Coordinator  
U.S. EPA, Region II

FROM: Smita Sumbaly  
RST 3 Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

Data Completeness	Holding Time
Calibration, Initial	Calibration, Continuing
Blanks	Laboratory Control Sample
Internal Standard	Surrogate Recoveries
Sample Quantification	Compound Identification

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

I  
VOC-  
TO-15

Acceptable as Submitted	____
Acceptable with Comments	<u>X</u>
Unacceptable, Action Pending	____
Unacceptable	____

Data Reviewed by: Smita Sumbaly 

Date: 3/13/2018

Approved By: Bernard Dorn

Date: 3/13/2018

Area Code/Phone No.: (732) 585-4410

## NARRATIVE

### PCS No. 4136

**SITE NAME:** Sweet Kleen Laundry Site  
760 Kensington Avenue,  
Buffalo, Erie County,  
New York

**Laboratory Name:** ALS Environmental, 2655 Park Center Drive, Suite A, Simi Valley, CA 93065.

#### INTRODUCTION:

The laboratory's portion of this case consisted of 15 vapor intrusion samples, including nine indoor airs, one ambient air, and five soil gas samples. The samples were collected from February 14 through 15, 2018. The ALS Project ID Number is: P1800810.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported no QC problems with the analysis of volatiles by EPA Method TO-15 SIM and TO-15 SCAN.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form Is and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference.

<u>Organic:</u>	<u>Y</u> Holding Time	<u>Y</u> Surrogate Compounds
	<u>Y</u> Calibration, Initial	<u>Y</u> Internal Standards
	<u>Y</u> Calibration, Continuing	<u>Y</u> Lab Duplicate
	<u>Y</u> Blanks	<u>Y</u> Data Completeness
	<u>Y</u> Laboratory Control Sample	<u>NA</u> Field Duplicate

Comments: Refer to Data Assessment Narrative.

**REGION II RST 3 DATA ASSESSMENT REPORT**

**SITE:** Sweet Kleen Laundry Site      **SDG No.:** P1800714

**LAB:** ALS Environmental, 2655 Park Center Dr., Suite A, Simi Valley, CA 93065

**ANALYSIS:** Volatile Organic Compounds (VOCs)

**No. of Samples/Matrix:** 9/Indoor Air, 1/Ambient Air, and 5/Soil Gas

**CONTRACTOR:** RST 3

The following table summarizes the analytical methods used for the requested analyses and the USEPA Region 2 data validation standard operating procedures (SOPs) used for data validation.

Analysis	Analytical Method	Data Validation SOP No.
VOCs	EPA TO-15	SOP No. HW-31 (Revision 6), September 2016

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's

Signature: Smita Sumbaly 

Date: 3/13/2018

Verified By: Bernard D. Dunn

Date: 3/13/2018

A total of nine indoor air, one ambient air, and five soil gas samples were collected in 6-liter Summa canisters from February 14 through 15, 2018, from the Sweet Kleen Laundry Site located at 760 Kingston Avenue, Buffalo, Erie County, New York. All samples were submitted to the laboratory for full list of volatile organic compounds (VOCs) analysis.

The target compounds for indoor and ambient air samples were reported under the selected ion monitoring (SIM) acquisition mode and soil gas samples were reported under the low level full scan acquisition mode from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010B), January, 1999. Compendium Method TO-15, Determination of VOCs In Air Collected In Specially-Prepared Canisters and Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS).

All quality control (QC) limits outlined in the referenced method were used as evaluation criteria.

Field Sample ID	Lab Sample ID	Matrix	Analysis	Start and Stop Dates
<b>ALS Project ID: P1800714</b>				
P001-AA001-180214-01	P1800714-001	Ambient Air	VOC by TO-15 SIM	2/14-15/2018
P002-IA001-180214-01	P1800714-002	Indoor Air	VOC by TO-15 SIM	2/14-15/2018
P002-IA002-180214-01	P1800714-003	Indoor Air	VOC by TO-15 SIM	2/14-15/2018
P002-IA003-180214-01	P1800714-004	Indoor Air	VOC by TO-15 SIM	2/14-15/2018
P002-SG001-180214-01	P1800714-005	Soil Gas	VOC by TO-15 SCAN	2/14-15/2018
P002-SG002-180214-01	P1800714-006	Soil Gas	VOC by TO-15 SCAN	2/14-15/2018
P002-SG003-180214-01	P1800714-007	Soil Gas	VOC by TO-15 SCAN	2/14-15/2018
P005-IA002-180214-01	P1800714-008	Indoor Air	VOC by TO-15 SIM	2/14-15/2018
P005-IA003-180214-01	P1800714-009	Indoor Air	VOC by TO-15 SIM	2/14-15/2018
P005-IA004-180214-01	P1800714-010	Indoor Air	VOC by TO-15 SIM	2/14-15/2018
P005-IA005-180214-01	P1800714-011	Indoor Air	VOC by TO-15 SIM	2/14-15/2018
P005-IA006-180214-01	P1800714-012	Indoor Air	VOC by TO-15 SIM	2/14-15/2018
P005-SG003-180214-01	P1800714-013	Soil Gas	VOC by TO-15 SCAN	2/14-15/2018
P005-IA001-180214-01	P1800714-014	Indoor Air	VOC by TO-15 SIM	2/14-15/2018
P005-SG002-180214-01	P1800714-015	Soil Gas	VOC by TO-15 SCAN	2/14-15/2018

**1. HOLDING TIME:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown below due to excessive holding time.

No problems were found for this criterion.

**2. Leak Test Evaluation:**

All canisters are leak tested prior to each sampling use. The initial pressure (approximately 206 kPa or 30 psi) is measured, the canister valve is closed, and the final pressure is checked after 24 hours. If acceptable, the pressure should not vary more than 13.8 kPa (2 psi) over the 24-hour period.

No problems were found for this criterion.

**3. Canister Certification:**

Canister certification involves two procedures: Blank Analysis and Blank Spike Analysis. The canister is "Certified Clean" if target analytes are < 0.2 ppbv. For the spiked canister, the acceptable % difference for any target compound at a nominal 10-ppbv concentration in humidified zero air is <30%.

No problems were found for this criterion.

**4. Laboratory Control/Lab Control Duplicate Recovery (LCS/LCSD):**

The LCS/LCS Duplicate data is generated to determine the long-term precision and accuracy of the analytical method. The LCS/LCS Duplicate may be used in conjunction with other QC criteria for additional qualification of data. The LCS is analyzed once per 24-hour analytical sequence and concurrently with the samples in the SDG. Percent recovery (%R) is expected in 70-130 % range. Relative percent difference (RPD) limit between LCS and LCSD is expected to be 25.

No problems were found for this criterion.

**5. BLANK CONTAMINATION:** Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field

activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples throughout field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects (U), based on criteria listed in Table 7 of SOP HW-31 (Revision 6, June 2014). Qualifications were applied to the samples and analytes as shown below.

The following analytes in the sample shown were qualified with "U" for these reasons:

**A) Method blank contamination:**

In method blank the following compound concentrations were less than 2 times reporting limit (RL) and the sample results were also less than 2 times RL. The following results were reported as non-detect (U) at the RL value.

P001-AA001-180214-01, P002-IA002-180214-01, P002-IA003-180214-01:  
Acetone

The following analyte results in the method blank were less than 2 times the RL and the sample results were greater than 2 times the RL, but less than 4 times the RL. The sample results were qualified as non-detect (U) at the reported concentration. For sample result greater than 4 times the RL, qualification was not required.

P002-IA001-180214-01: Acetone

**B) Trip/Field or rinse blank contamination:**

Not applicable.

**C) Tentatively Identified Compounds (TICs) rejected (R):**

Not applicable.

**6. MASS SPECTROMETER TUNING:**

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria must be met in all circumstances. The tuning standard for volatile organics is Bromofluorobenzene (BFB). If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems were found for this criterion.

**7. CALIBRATION:**

**A) Response Factor GC/MS:**

The response factor measures the instrument's response to specific chemical compounds. All analytes for initial and continuing calibrations should meet the minimum relative response factor (RRF) criteria as listed in Tables 4, 5, and 6 of SOP HW-31 (Revision 6, June 2014). If RRF is less than minimum RRF as specified in Tables 4, 5, and 6 for any target analytes, use professional judgment to qualify those detects in the sample as "J" or "R". All non-detects for that compound will be rejected "R".

All RRFs met the requirements.

**B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):** Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of providing acceptable performance at the beginning of an experimental sequence. The continuing calibration verifications (CCVs) document that the instrument is giving satisfactory daily performance. The %RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. The %D is a measure of the instrument's daily performance and compares the response factor of the CCV to the mean RRF from the initial calibration. The %RSD must be  $\leq 30\%$  for all target analytes. The %D must be  $\leq 30\%$  for all target analytes. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, if the %RSD exceeds the control limit, estimate (J) the positive results and use professional judgment to qualify the non-detects. If the %D exceeds the control limit, positive sample and non-detect results are flagged as estimated, J and UJ, respectively. If %RSD and %D grossly exceed QC criteria, the non-detects may be rejected (R).

No problems were found for this criterion.

**8. INTERNAL STANDARDS PERFORMANCE:** Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than 40% of that in the latest daily calibration standard. The retention time of the internal standard must not vary more than 20 seconds from the latest daily calibration standard. If the area count is greater than the 40% range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated "J-", and all non-detects are not flagged. If the area count is less than the

40% range of the associated standard, all of the positive results for compounds quantitated with that IS are qualified as estimated "J+", and all non-detects are qualified as unusable "R".

If an internal standard retention time varies by more than 20 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

No problems were found for this criterion.

#### **9. COMPOUND IDENTIFICATION:**

Compounds on the target analyte list (TCL) are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive identification, the sample peak must be within 0.06 RRT units of the standard compound and have ion spectra which have a ratio of the primary and secondary m/z intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems were found for this criterion. It should be noted that TIC results were not requested.

#### **10. FIELD DUPLICATE ANALYSIS**

Analysis of field duplicates may be performed to assess the precision of sampling. Samples within the data package which are duplicates are identified. In the absence of QAPP guidance, percent difference (%RPD) greater than 50% are noted, and professional judgment is used to estimate the results.

Not applicable

#### **11. METHOD DETECTION LIMIT (MDL):**

The MDL met relevant requirements for Method TO-15; all MDLs were below the reporting limits.

#### **12. CONTRACT NON-COMPLIANCE:**

Dilutions were performed on sample P005-SG002-180214-01 for tetrachloroethene by using a less than nominal air volume for analysis due to the presence of high level of non-target analytes.

**13. FIELD DOCUMENTATION:**

Laboratory informed via email that batch certified canister was used for indoor air sample P002-IA002-180214-01 and an individually certified canister was used for soil gas sample P002-SG002-180214-01.

The wrong stop pressure of -25 was inadvertently entered in the chain of custody (COC) record instead of -5. Data reviewer checked field data sheets, confirmed correct stop pressure, manually corrected the COC, and initialed it.

**14. OTHER CONSIDERATIONS:**

**SURROGATE RECOVERY:** Laboratory also spiked all the samples with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. All surrogate recoveries were within lab established QC limits (70-130%).

**15. DILUTIONS, RE-EXTRactions & RE-ANALYSIS:**

Samples may be re-analyzed after dilution, re-extraction and for other QC reasons. In such cases, the best result values are consolidated in one single report or Form 1 and the other report or Form 1 is invalidated and is not usable. This best result value consolidation is also reflected in the EDDs by marking them "reportable". The following report(s), Form 1s are not to be used.

None



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## LABORATORY REPORT

February 28, 2018

Smita Sumbaly  
Weston Solutions, Inc.  
1090 King Georges Post Road Suite 201  
Edison, NJ 08837

RE: RFB 480

Dear Smita:

Enclosed are the results of the samples submitted to our laboratory on February 16, 2018. For your reference, these analyses have been assigned our service request number P1800714.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

  
By Kate Kaneko at 6:55 pm, 02/28/18

Kate Kaneko  
Project Manager



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Client: Weston Solutions, Inc.  
Project: RFB 480

Service Request No: P1800714  
NJ Certification ID: CA009

### CASE NARRATIVE

The samples were received intact under chain of custody on February 16, 2018 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

#### Volatile Organic Compound Analysis

The samples were analyzed in SIM or scan mode for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.1 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

**ALS ENVIRONMENTAL**

**DETAIL SUMMARY REPORT**

Client: Weston Solutions, Inc.  
 Project ID: RFB 480

Service Request: P1800714

Date Received: 2/16/2018  
 Time Received: 09:30

TO-15 - VOC SIM	TO-15 - VOC Cans
-----------------	------------------

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	P <i>t1</i> (psig)	P <i>t0</i> (psig)	
P001-AA001-180214-01	P1800714-001	Air	2/15/2018	12:22	AC01890	-1.56	3.71	X
P002-IA001-180214-01	P1800714-002	Air	2/15/2018	10:53	AC02147	0.21	3.59	X
P002-IA002-180214-01	P1800714-003	Air	2/15/2018	10:58	SC02184	-0.31	3.62	X
P002-IA003-180214-01	P1800714-004	Air	2/15/2018	11:05	AS01293	0.58	3.61	X
P002-SG001-180214-01	P1800714-005	Air	2/15/2018	10:52	SC00104	-1.96	3.82	X
P002-SG002-180214-01	P1800714-006	Air	2/15/2018	10:59	AS01319	-1.87	3.74	X
P002-SG003-180214-01	P1800714-007	Air	2/15/2018	11:04	SC01499	-1.87	3.98	X
P005-IA002-180214-01	P1800714-008	Air	2/15/2018	10:12	AS01322	-2.05	3.73	X
P005-IA003-180214-01	P1800714-009	Air	2/15/2018	10:25	AS01058	-0.81	3.77	X
P005-IA004-180214-01	P1800714-010	Air	2/15/2018	10:37	AC01844	-1.73	3.54	X
P005-IA005-180214-01	P1800714-011	Air	2/15/2018	10:41	AS01294	-1.19	3.57	X
P005-IA006-180214-01	P1800714-012	Air	2/15/2018	10:45	AS01321	-1.62	3.65	X
P005-SG003-180214-01	P1800714-013	Air	2/15/2018	10:24	SC01903	-2.84	3.97	X
P005-IA001-180214-01	P1800714-014	Air	2/15/2018	10:05	AS01292	-1.49	3.54	X
P005-SG002-180214-01	P1800714-015	Air	2/15/2018	10:13	SC01583	-2.56	3.65	X

**ALS Environmental**  
**Sample Acceptance Check Form**

Client: Weston Solutions, Inc.

Work order: P1800714

Project: RFB 480

Sample(s) received on: 2/16/18

Date opened: 2/16/18

by: E.PEREZ

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		<u>Yes</u>	<u>No</u>	<u>N/A</u>
1	Were sample containers properly marked with client sample ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Did sample containers arrive in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Were chain-of-custody papers used and filled out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Did sample container labels and/or tags agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Was sample volume received adequate for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Are samples within specified holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Was proper temperature (thermal preservation) of cooler at receipt adhered to?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	Were custody seals on outside of cooler/Box/Container?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Location of seal(s)? _____	Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>
	Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Do containers have appropriate preservation, according to method/SOP or Client specified information?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Is there a client indication that the submitted samples are pH preserved?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were <u>VOA vials</u> checked for presence/absence of air bubbles?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Tubes: Are the tubes capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Badges: Are the badges properly capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Are dual bed badges separated and individually capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1800714-001.01	6.0 L Ambient Can					
P1800714-002.01	6.0 L Ambient Can					
P1800714-003.01	6.0 L Source Can					
P1800714-004.01	6.0 L Silonite Can					
P1800714-005.01	6.0 L Source Can					
P1800714-006.01	6.0 L Silonite Can					
P1800714-007.01	6.0 L Source Can					
P1800714-008.01	6.0 L Silonite Can					
P1800714-009.01	6.0 L Silonite Can					
P1800714-010.01	6.0 L Ambient Can					
P1800714-011.01	6.0 L Silonite Can					
P1800714-012.01	6.0 L Silonite Can					
P1800714-013.01	6.0 L Source Can					
P1800714-014.01	6.0 L Silonite Can					
P1800714-015.01	6.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEP, HCl (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

**ALS Environmental  
Sample Acceptance Check Form**

**Client:** Weston Solutions, Inc.

Work order: P1800714

Project: RFB 480

Sample(s) received on: 2/16/18

Date opened: 2/16/18

by E PEREZ

Explain any discrepancies: (include lab sample ID numbers):

# OTHER ANALYTES WORK TABLE

**PROJECT: Sweet Kleen Laundry Site**

**SAMPLING DATES: February 14 to 15, 2018**

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Soil Gas P002-SG001-180214-01 P1800714-005 SC00104 0.010 L 1.45				Soil Gas P002-SG002-180214-01 P1800714-006 AS01319 0.0050 L 1.44			
	Result	MDL	Result	MDL	Result	MDL	Result	MDL
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv
	ND	20	ND	12	ND	40	ND	23
	ND	25	ND	5.0	ND	49	ND	9.9
Propene	ND	22	ND	11	ND	43	ND	21
Dichlorodifluoromethane (CFC 12)	ND	28	ND	3.9	ND	55	ND	7.8
Chloromethane	ND	25	ND	9.3	ND	49	ND	19
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	32	ND	14	ND	63	ND	29
Vinyl Chloride	ND	28	ND	7.1	ND	55	ND	14
1,3-Butadiene	ND	25	ND	9.6	ND	49	ND	120
Bromomethane	ND	120	ND	62	ND	230	ND	31
Chloroethane	ND	110	ND	47	ND	220	ND	93
Ethanol	ND	26	ND	11	ND	49	ND	21
Acetonitrile	ND	25	ND	16	ND	49	ND	12
Acrolein	ND	25	ND	4.4	ND	49	ND	8.7
2-Propanol (Isopropyl Alcohol)	ND	61	ND	25	ND	120	ND	49
Acrylonitrile	ND	25	ND	11	ND	49	ND	23
1,1-Dichloroethene	ND	25	ND	6.2	ND	49	ND	14
Methylene Chloride	ND	25	ND	7.1	ND	49	ND	15
3-Chloro-1-propene (Allyl Chloride)	ND	25	ND	7.4	ND	46	ND	6.4
Trichlorotrifluoroethane (CFC 113)	ND	25	ND	3.2	ND	49	ND	14
Carbon Disulfide	ND	28	ND	7.0	ND	43	ND	11
trans-1,2-Dichloroethene	ND	25	ND	7.0	ND	55	ND	21
1,1-Dichloroethane	ND	23	ND	5.7	ND	46	ND	14
Methyl tert-Butyl Ether	ND	25	ND	6.8	ND	49	ND	28
Vinyl Acetate	ND	94	ND	27	ND	190	ND	53
2-Butanone (MEK)	ND	30	ND	10	ND	60	ND	21
cis-1,2-Dichloroethene	25 J	23	6.2 J	5.9	ND	46	ND	12
Ethyl Acetate	ND	51	ND	14	ND	100	ND	26
n-Hexane	ND	22	ND	6.2	ND	43	ND	12
Chloroform	ND	25	ND	5.0	ND	49	ND	10
Tetrahydrofuran (THF)	ND	29	ND	9.8	ND	58	ND	20
1,2-Dichloroethane	ND	23	ND	5.7	ND	46	ND	11
1,1,1-Trichloroethane	ND	25	ND	4.5	ND	49	ND	9.0
Benzene	ND	23	ND	7.3	ND	46	ND	14
Carbon Tetrachloride	ND	22	ND	3.5	ND	43	ND	6.9
Cyclohexane	ND	42	ND	12	ND	84	ND	24
1,2-Dichloropropane	ND	23	ND	5.0	ND	46	ND	10
Bromodichloromethane	ND	22	ND	3.2	ND	43	ND	6.5
Trichloroethene	130	20	24	3.8	530	40	98	7.5

# OTHER ANALYTES WORK TABLE

**PROJECT:** Sweet Kleen Laundry Site

**SAMPLING DATES:** February 14 to 15, 2018

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Soil Gas				Soil Gas			
	P002-SG001-180214-01				P002-SG002-180214-01			
	P1800714-005				P1800714-006			
	SC00104				AS01319			
	0.010 L				0.0050 L			
	1.45				1.44			
TO-15 VOCs	Result	MDL	Result	MDL	Result	MDL	Result	MDL
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv
1,4-Dioxane	ND	23	ND	6.4	ND	46	ND	13
Methyl Methacrylate	ND	45	ND	11	ND	89	ND	22
n-Heptane	ND	25	ND	6.0	ND	49	ND	12
cis-1,3-Dichloropropene	ND	20	ND	4.5	ND	40	ND	8.9
4-Methyl-2-pentanone	ND	23	ND	5.7	ND	46	ND	11
trans-1,3-Dichloropropene	ND	23	ND	5.1	ND	46	ND	10
1,1,2-Trichloroethane	ND	23	ND	4.3	ND	46	ND	8.4
Toluene	ND	25	ND	6.5	ND	49	ND	13
2-Hexanone	ND	23	ND	5.7	ND	46	ND	11
Dibromochloromethane	ND	23	ND	2.7	ND	46	ND	5.4
1,2-Dibromoethane	ND	23	ND	3.0	ND	46	ND	6.0
n-Butyl Acetate	ND	23	ND	4.9	ND	46	ND	9.7
n-Octane	ND	26	ND	5.6	ND	52	ND	11
Tetrachloroethene	10,000	20	1,500	3.0	23,000	40	3,300	5.9
Chlorobenzene	ND	23	ND	5.0	ND	46	ND	10
Ethylbenzene	ND	23	ND	5.3	ND	46	ND	11
m,p-Xylenes	ND	44	ND	10	ND	86	ND	20
Bromoform	ND	22	ND	2.1	ND	43	ND	4.2
Styrene	ND	22	ND	5.1	ND	43	ND	10
o-Xylene	ND	22	ND	5.0	ND	43	ND	9.9
n-Nonane	ND	22	ND	4.1	ND	43	ND	8.2
1,1,2,2-Tetrachloroethane	ND	22	ND	3.2	ND	43	ND	6.3
Cumene	ND	22	ND	4.4	ND	43	ND	8.8
alpha-Pinene	ND	20	ND	3.6	ND	40	ND	7.2
n-Propylbenzene	ND	23	ND	4.7	ND	46	ND	9.4
4-Ethyltoluene	ND	23	ND	4.7	ND	46	ND	9.4
1,3,5-Trimethylbenzene	ND	23	ND	4.7	ND	46	ND	9.4
1,2,4-Trimethylbenzene	ND	22	ND	4.4	ND	43	ND	8.8
Benzyl Chloride	ND	16	ND	3.1	ND	32	ND	6.1
1,3-Dichlorobenzene	ND	22	ND	3.6	ND	43	ND	7.2
1,4-Dichlorobenzene	ND	20	ND	3.4	ND	40	ND	6.7
1,2-Dichlorobenzene	ND	22	ND	3.6	ND	43	ND	7.2
d-Limonene	ND	20	ND	3.6	ND	40	ND	7.2
1,2-Dibromo-3-chloropropane	ND	14	ND	1.5	ND	29	ND	3.0
1,2,4-Trichlorobenzene	ND	23	ND	3.1	ND	46	ND	6.2
Naphthalene	ND	26	ND	5.0	ND	52	ND	9.9
Hexachlorobutadiene	ND	20	ND	1.9	ND	40	ND	3.8

MDL - Method Detection Limit

ND - non-detected compound

J - estimated value

**Bold result**-detected value

# OTHER ANALYTES WORK TABLE

**PROJECT: Sweet Kleen Laundry Site**

**SAMPLING DATES: February 14 to 15, 2018**

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Soil Gas				Soil Gas				
	P002-SG003-180214-01				P005-SG003-180214-01				
	P1800714-007				P1800714-013				
	SC01499				SC01903				
	0.010 L				0.25 L				
Dilution Factor		1.46				1.57			
TO-15 VOCs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv	
Propene	ND	20	ND	12.00	ND	0.88	ND	0.51	
Dichlorodifluoromethane (CFC 12)	ND	25	ND	5.0	2.6 J	1.1	0.53 J	0.22	
Chloromethane	ND	22	ND	11	ND	0.94	ND	0.46	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	28	ND	4.0	ND	1.2	ND	0.17	
Vinyl Chloride	ND	25	ND	9.7	ND	1.1	ND	0.42	
1,3-Butadiene	ND	32	ND	15	ND	1.4	ND	0.62	
Bromomethane	ND	28	ND	7.1	ND	1.2	ND	0.31	
Chloroethane	ND	25	ND	9.4	ND	1.1	ND	0.40	
Ethanol	ND	120	ND	62	ND	5.0	ND	2.7	
Acetonitrile	ND	26	ND	16	ND	1.1	ND	0.67	
Acrolein	ND	25	ND	11	ND	1.1	ND	0.47	
Acetone	ND	110	ND	47	21 J	4.8	8.8 J	2.0	
Trichlorofluoromethane (CFC 11)	ND	25	ND	4.4	1.3 J	1.1	0.24 J	0.19	
2-Propanol (Isopropyl Alcohol)	ND	61	ND	25	ND	2.6	ND	1.1	
Acrylonitrile	ND	25	ND	11	ND	1.1	ND	0.49	
1,1-Dichloroethene	ND	25	ND	6.3	ND	1.1	ND	0.27	
Methylene Chloride	ND	25	ND	7.1	ND	1.1	ND	0.31	
3-Chloro-1-propene (Allyl Chloride)	ND	23	ND	7.5	ND	1.0	ND	0.32	
Trichlorotrifluoroethane (CFC 113)	ND	25	ND	3.2	ND	1.1	ND	0.14	
Carbon Disulfide	ND	22	ND	7.0	1.2 J	0.94	0.40 J	0.30	
trans-1,2-Dichloroethene	ND	28	ND	7.0	ND	1.2	ND	0.30	
1,1-Dichloroethane	ND	23	ND	5.8	ND	1.0	ND	0.25	
Methyl tert-Butyl Ether	ND	25	ND	6.9	ND	1.1	ND	0.30	
Vinyl Acetate	ND	95	ND	27	ND	4.1	ND	1.2	
2-Butanone (MEK)	ND	31	ND	10	1.5 J	1.3	0.52 J	0.45	
cis-1,2-Dichloroethene	ND	23	ND	5.9	ND	1.0	ND	0.25	
Ethyl Acetate	ND	51	ND	14	ND	2.2	ND	0.61	
n-Hexane	ND	22	ND	6.2	1.5 J	0.94	0.43 J	0.27	
Chloroform	ND	25	ND	5.1	ND	1.1	ND	0.22	
Tetrahydrofuran (THF)	ND	29	ND	9.9	ND	1.3	ND	0.43	
1,2-Dichloroethane	ND	23	ND	5.8	ND	1.0	ND	0.25	
1,1,1-Trichloroethane	ND	25	ND	4.6	ND	1.1	ND	0.20	
Benzene	ND	23	ND	7.3	1.8 J	1.0	0.56 J	0.31	
Carbon Tetrachloride	ND	22	ND	3.5	ND	0.94	ND	0.15	
Cyclohexane	ND	42	ND	12	ND	1.8	ND	0.53	
1,2-Dichloropropane	ND	23	ND	5.1	ND	1.0	ND	0.22	
Bromodichloromethane	ND	22	ND	3.3	ND	0.94	ND	0.14	
Trichloroethene	150	20	27	3.8	13	0.88	2.4	0.16	

# OTHER ANALYTES WORK TABLE

**PROJECT:** Sweet Kleen Laundry Site

**SAMPLING DATES:** February 14 to 15, 2018

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Soil Gas P002-SG003-180214-01 P1800714-007 SC01499 0.010 L 1.46				Soil Gas P005-SG003-180214-01 P1800714-013 SC01903 0.25 L 1.57			
	Result	MDL	Result	MDL	Result	MDL	Result	MDL
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv
1,4-Dioxane	ND	23	ND	6.5	ND	1.0	ND	0.28
Methyl Methacrylate	ND	45	ND	11	ND	1.9	ND	0.48
n-Heptane	ND	25	ND	6.1	<b>1.5 J</b>	1.1	<b>0.37 J</b>	0.26
cis-1,3-Dichloropropene	ND	20	ND	4.5	ND	0.88	ND	0.19
4-Methyl-2-pentanone	ND	23	ND	5.7	ND	1.0	ND	0.25
trans-1,3-Dichloropropene	ND	23	ND	5.1	ND	1.0	ND	0.22
1,1,2-Trichloroethane	ND	23	ND	4.3	ND	1.0	ND	0.18
Toluene	ND	25	ND	6.6	<b>4.6</b>	1.1	<b>1.2</b>	0.28
2-Hexanone	ND	23	ND	5.7	ND	1.0	ND	0.25
Dibromochloromethane	ND	23	ND	2.7	ND	1.0	ND	0.12
1,2-Dibromoethane	ND	23	ND	3.0	ND	1.0	ND	0.13
n-Butyl Acetate	ND	23	ND	4.9	ND	1.0	ND	0.21
n-Octane	ND	26	ND	5.6	<b>1.1 J</b>	1.1	<b>0.25 J</b>	0.24
Tetrachloroethylene	<b>12,000</b>	20	<b>1,800</b>	3.0	<b>640</b>	0.88	<b>95</b>	0.13
Chlorobenzene	ND	23	ND	5.1	ND	1.0	ND	0.22
Ethylbenzene	ND	23	ND	5.4	<b>5.3</b>	1.0	<b>1.2</b>	0.23
m,p-Xylenes	ND	44	ND	10	<b>11</b>	1.9	<b>2.5</b>	0.43
Bromoform	ND	22	ND	2.1	ND	0.94	ND	0.091
Styrene	ND	22	ND	5.1	ND	0.94	ND	0.22
o-Xylene	ND	22	ND	5.0	<b>3.3</b>	0.94	<b>0.77</b>	0.22
n-Nonane	ND	22	ND	4.2	<b>1.2 J</b>	0.94	<b>0.23 J</b>	0.18
1,1,2,2-Tetrachloroethane	ND	22	ND	3.2	ND	0.94	ND	0.14
Cumene	ND	22	ND	4.5	<b>1.0 J</b>	0.94	<b>0.20 J</b>	0.19
alpha-Pinene	ND	20	ND	3.7	ND	0.88	ND	0.16
n-Propylbenzene	ND	23	ND	4.8	<b>1.2 J</b>	1.0	<b>0.24 J</b>	0.20
4-Ethyltoluene	ND	23	ND	4.8	ND	1.0	ND	0.20
1,3,5-Trimethylbenzene	ND	23	ND	4.8	ND	1.0	ND	0.20
1,2,4-Trimethylbenzene	ND	22	ND	4.5	<b>3.0 J</b>	0.94	<b>0.60 J</b>	0.19
Benzyl Chloride	ND	16	ND	3.1	ND	0.69	ND	0.13
1,3-Dichlorobenzene	ND	22	ND	3.6	ND	0.94	ND	0.16
1,4-Dichlorobenzene	ND	20	ND	3.4	ND	0.88	ND	0.15
1,2-Dichlorobenzene	ND	22	ND	3.6	ND	0.94	ND	0.16
d-Limonene	ND	20	ND	3.7	<b>2.9 J</b>	0.88	<b>0.53 J</b>	0.16
1,2-Dibromo-3-chloropropane	ND	14	ND	1.5	ND	0.62	ND	0.064
1,2,4-Trichlorobenzene	ND	23	ND	3.1	ND	1.0	ND	0.14
Naphthalene	ND	26	ND	5.0	ND	1.1	ND	0.22
Hexachlorobutadiene	ND	20	ND	1.9	ND	0.88	ND	0.082

MDL - Method Detection Limit

ND - non-detected compound

J - estimated value

**Bold** result=detected value

# OTHER ANALYTES WORK TABLE

**PROJECT: Sweet Kleen Laundry Site**

**SAMPLING DATES: February 14 to 15, 2018**

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Soil Gas			
	P005-SG002-180214-01			
	P1800714-015			
	SSC01583			
	1.00 L/*0.025 L			
TO-15 VOCs	Result µg/m3	MDL µg/m3	Result ppbv	MDL ppbv
Propene	0.47 J	0.21	0.27 J	0.12
Dichlorodifluoromethane (CFC 12)	3.4	0.26	0.69	0.052
Chloromethane	ND	0.23	ND	0.11
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.29	ND	0.041
Vinyl Chloride	ND	0.26	ND	0.10
1,3-Butadiene	ND	0.33	ND	0.15
Bromomethane	ND	0.29	ND	0.074
Chloroethane	ND	0.26	ND	0.097
Ethanol	4.3 J	1.2	2.3 J	0.64
Acetonitrile	ND	0.27	ND	0.16
Acrolein	0.45 J	0.26	0.20 J	0.11
Acetone	13	1.2	5.6	0.49
Trichlorofluoromethane (CFC 11)	1.5	0.26	0.26	0.046
2-Propanol (Isopropyl Alcohol)	0.72 J	0.63	0.29 J	0.26
Acrylonitrile	ND	0.26	ND	0.12
1,1-Dichloroethene	ND	0.26	ND	0.065
Methylene Chloride	ND	0.26	ND	0.074
3-Chloro-1-propene (Allyl Chloride)	ND	0.24	ND	0.077
Trichlorotrifluoroethane (CFC 113)	0.46 J	0.26	0.060 J	0.034
Carbon Disulfide	13. J	0.23	0.40 J	0.073
trans-1,2-Dichloroethene	ND	0.29	ND	0.072
1,1-Dichloroethane	ND	0.24	ND	0.060
Methyl tert-Butyl Ether	ND	0.26	ND	0.071
Vinyl Acetate	1.5 J	0.98	0.43 J	0.28
2-Butanone (MEK)	0.86 J	0.32	0.29 J	0.11
cis-1,2-Dichloroethene	ND	0.24	ND	0.061
Ethyl Acetate	18	0.53	5.0	0.15
n-Hexane	0.91	0.23	0.26	0.064
Chloroform	2.0	0.26	0.41	0.053
Tetrahydrofuran (THF)	0.91	0.30	0.31	0.10
1,2-Dichloroethane	ND	0.24	ND	0.060
1,1,1-Trichloroethane	0.62 J	0.26	0.11 J	0.047
Benzene	0.50 J	0.24	0.16 J	0.076
Carbon Tetrachloride	3.7	0.23	0.58	0.036
Cyclohexane	ND	0.44	ND	0.13
1,2-Dichloropropane	ND	0.24	ND	0.052
Bromodichloromethane	0.36 J	0.23	0.054 J	0.034
Trichloroethene	33	0.21	6.2	0.039

# OTHER ANALYTES WORK TABLE

**PROJECT: Sweet Kleen Laundry Site**

**SAMPLING DATES: February 14 to 15, 2018**

<b>Matrix:</b> <b>Client ID#:</b> <b>Lab ID#:</b> <b>Canister ID:</b> <b>Volume Analyzed:</b> <b>Dilution Factor</b>	<b>Soil Gas</b>			
	P005-SG002-180214-01			
	P1800714-015			
	SSC01583			
	1.00 L/*0.025 L			
	1.51			
TO-15 VOCs	Result	MDL	Result	MDL
	µg/m3	µg/m3	ppbv	ppbv
1,4-Dioxane	ND	0.24	ND	0.067
Methyl Methacrylate	ND	0.47	ND	0.11
n-Heptane	<b>0.80</b>	0.26	<b>0.20</b>	0.063
cis-1,3-Dichloropropene	ND	0.21	ND	0.047
4-Methyl-2-pentanone	ND	0.24	ND	0.059
trans-1,3-Dichloropropene	ND	0.24	ND	0.053
1,1,2-Trichloroethane	ND	0.24	ND	0.044
Toluene	<b>3.7</b>	0.26	<b>0.098</b>	0.068
2-Hexanone	ND	0.24	ND	0.059
Dibromochloromethane	ND	0.24	ND	0.028
1,2-Dibromoethane	ND	0.24	ND	0.031
n-Butyl Acetate	<b>0.42 J</b>	0.24	<b>0.088 J</b>	0.051
n-Octane	<b>0.50 J</b>	0.27	<b>0.11 J</b>	0.058
Tetrachloroethene	<b>*3,800</b>	8.5	<b>*560</b>	1.2
Chlorobenzene	ND	0.24	ND	0.052
Ethylbenzene	<b>1.1</b>	0.24	<b>0.25</b>	0.056
m,p-Xylenes	<b>2.8</b>	0.45	<b>0.64</b>	0.10
Bromoform	ND	0.23	ND	0.022
Styrene	ND	0.23	ND	0.053
o-Xylene	<b>0.64 J</b>	0.23	<b>0.15 J</b>	0.052
n-Nonane	ND	0.23	ND	0.043
1,1,2,2-Tetrachloroethane	ND	0.23	ND	0.033
Cumene	ND	0.23	ND	0.046
alpha-Pinene	<b>0.39 J</b>	0.21	<b>0.069 J</b>	0.038
n-Propylbenzene	ND	0.24	ND	0.049
4-Ethyltoluene	ND	0.24	ND	0.049
1,3,5-Trimethylbenzene	ND	0.24	ND	0.049
1,2,4-Trimethylbenzene	ND	0.23	ND	0.046
Benzyl Chloride	ND	0.17	ND	0.032
1,3-Dichlorobenzene	ND	0.23	ND	0.038
1,4-Dichlorobenzene	ND	0.21	ND	0.035
1,2-Dichlorobenzene	ND	0.23	ND	0.038
d-Limonene	ND	0.21	ND	0.038
1,2-Dibromo-3-chloropropane	ND	0.15	ND	0.015
1,2,4-Trichlorobenzene	ND	0.24	ND	0.033
Naphthalene	ND	0.27	ND	0.052
Hexachlorobutadiene	ND	0.21	ND	0.020

MDL - Method Detection Limit

ND - non-detected compound

J - estimated value

**Bold result-detected value**

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 3

**Client:** Weston Solutions, Inc.

**Client Sample ID:** P002-SG001-180214-01

**Client Project ID:** RFB 480

ALS Project ID: P1800714

ALS Sample ID: P1800714-005

**Test Code:** EPA TO-15

**Instrument ID:** Tekmar AUTOCAN/Agilent 5975B/Inert/6890N/MS13

Date Collected: 2/15/18

**Analyst:** Raneem Sahtah

Date Received: 2/16/18

**Sample Type:** 6.0 L Summa Canister

Date Analyzed: 2/23/18

**Test Notes:**

Volume(s) Analyzed: 0.010 Liter(s)

**Container ID:** SC00104

Initial Pressure (psig): -1.96      Final Pressure (psig): 3.82

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	73	20	ND	42	12	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	73	25	ND	15	5.0	
74-87-3	Chloromethane	ND	73	22	ND	35	11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	73	28	ND	10		3.9
75-01-4	Vinyl Chloride	ND	73	25	ND	28		9.6
106-99-0	1,3-Butadiene	ND	73	32	ND	33		14
74-83-9	Bromomethane	ND	73	28	ND	19		7.1
75-00-3	Chloroethane	ND	73	25	ND	27		9.3
64-17-5	Ethanol	ND	730	120	ND	380		62
75-05-8	Acetonitrile	ND	73	26	ND	43		16
107-02-8	Acrolein	ND	290	25	ND	130		11
67-64-1	Acetone	ND	730	110	ND	310		47
75-69-4	Trichlorofluoromethane (CFC 11)	ND	73	25	ND	13		4.4
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	730	61	ND	300		25
107-13-1	Acrylonitrile	ND	73	25	ND	33		11
75-35-4	1,1-Dichloroethene	ND	73	25	ND	18		6.2
75-09-2	Methylene Chloride	ND	73	25	ND	21		7.1
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	73	23	ND	23		7.4
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	73	25	ND	9.5		3.2
75-15-0	Carbon Disulfide	ND	730	22	ND	230		7.0
156-60-5	trans-1,2-Dichloroethene	ND	73	28	ND	18		7.0
75-34-3	1,1-Dichloroethane	ND	73	23	ND	18		5.7
1634-04-4	Methyl tert-Butyl Ether	ND	73	25	ND	20		6.8
108-05-4	Vinyl Acetate	ND	730	94	ND	210		27
78-93-3	2-Butanone (MEK)	ND	730	30	ND	250		10

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

**RESULTS OF ANALYSIS**

Page 2 of 3

**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-SG001-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-005

<b>Test Code:</b>	EPA TO-15	<b>Date Collected:</b>	2/15/18
<b>Instrument ID:</b>	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	<b>Date Received:</b>	2/16/18
<b>Analyst:</b>	Raneem Sahtah	<b>Date Analyzed:</b>	2/23/18
<b>Sample Type:</b>	6.0 L Summa Canister	<b>Volume(s) Analyzed:</b>	0.010 Liter(s)
<b>Test Notes:</b>			
<b>Container ID:</b>	SC00104		

Initial Pressure (psig): -1.96      Final Pressure (psig): 3.82

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	25	73	23	6.2	18	5.9	J
141-78-6	Ethyl Acetate	ND	150	51	ND	40	14	
110-54-3	n-Hexane	ND	73	22	ND	21	6.2	
67-66-3	Chloroform	ND	73	25	ND	15	5.0	
109-99-9	Tetrahydrofuran (THF)	ND	73	29	ND	25	9.8	
107-06-2	1,2-Dichloroethane	ND	73	23	ND	18	5.7	
71-55-6	1,1,1-Trichloroethane	ND	73	25	ND	13	4.5	
71-43-2	Benzene	ND	73	23	ND	23	7.3	
56-23-5	Carbon Tetrachloride	ND	73	22	ND	12	3.5	
110-82-7	Cyclohexane	ND	150	42	ND	42	12	
78-87-5	1,2-Dichloropropane	ND	73	23	ND	16	5.0	
75-27-4	Bromodichloromethane	ND	73	22	ND	11	3.2	
79-01-6	Trichloroethene	130	73	20	24	13	3.8	
123-91-1	1,4-Dioxane	ND	73	23	ND	20	6.4	
80-62-6	Methyl Methacrylate	ND	150	45	ND	35	11	
142-82-5	n-Heptane	ND	73	25	ND	18	6.0	
10061-01-5	cis-1,3-Dichloropropene	ND	73	20	ND	16	4.5	
108-10-1	4-Methyl-2-pentanone	ND	73	23	ND	18	5.7	
10061-02-6	trans-1,3-Dichloropropene	ND	73	23	ND	16	5.1	
79-00-5	1,1,2-Trichloroethane	ND	73	23	ND	13	4.3	
108-88-3	Toluene	ND	73	25	ND	19	6.5	
591-78-6	2-Hexanone	ND	73	23	ND	18	5.7	
124-48-1	Dibromochloromethane	ND	73	23	ND	8.5	2.7	
106-93-4	1,2-Dibromoethane	ND	73	23	ND	9.4	3.0	
123-86-4	n-Butyl Acetate	ND	73	23	ND	15	4.9	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-SG001-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-005

Test Code:	EPA TO-15	Date Collected:	2/15/18
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	2/16/18
Analyst:	Raneem Sahtah	Date Analyzed:	2/23/18
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	0.010 Liter(s)
Test Notes:			
Container ID:	SC00104		

Initial Pressure (psig): -1.96      Final Pressure (psig): 3.82

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	73	26	ND	16	5.6	
127-18-4	Tetrachloroethene	10,000	73	20	1,500	11	3.0	
108-90-7	Chlorobenzene	ND	73	23	ND	16	5.0	
100-41-4	Ethylbenzene	ND	73	23	ND	17	5.3	
179601-23-1	m,p-Xylenes	ND	150	44	ND	33	10	
75-25-2	Bromoform	ND	73	22	ND	7.0	2.1	
100-42-5	Styrene	ND	73	22	ND	17	5.1	
95-47-6	o-Xylene	ND	73	22	ND	17	5.0	
111-84-2	n-Nonane	ND	73	22	ND	14	4.1	
79-34-5	1,1,2,2-Tetrachloroethane	ND	73	22	ND	11	3.2	
98-82-8	Cumene	ND	73	22	ND	15	4.4	
80-56-8	alpha-Pinene	ND	73	20	ND	13	3.6	
103-65-1	n-Propylbenzene	ND	73	23	ND	15	4.7	
622-96-8	4-Ethyltoluene	ND	73	23	ND	15	4.7	
108-67-8	1,3,5-Trimethylbenzene	ND	73	23	ND	15	4.7	
95-63-6	1,2,4-Trimethylbenzene	ND	73	22	ND	15	4.4	
100-44-7	Benzyl Chloride	ND	150	16	ND	28	3.1	
541-73-1	1,3-Dichlorobenzene	ND	73	22	ND	12	3.6	
106-46-7	1,4-Dichlorobenzene	ND	73	20	ND	12	3.4	
95-50-1	1,2-Dichlorobenzene	ND	73	22	ND	12	3.6	
5989-27-5	d-Limonene	ND	73	20	ND	13	3.6	
96-12-8	1,2-Dibromo-3-chloropropane	ND	73	14	ND	7.5	1.5	
120-82-1	1,2,4-Trichlorobenzene	ND	73	23	ND	9.8	3.1	
91-20-3	Naphthalene	ND	73	26	ND	14	5.0	
87-68-3	Hexachlorobutadiene	ND	73	20	ND	6.8	1.9	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-SG002-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-006

Test Code:	EPA TO-15	Date Collected:	2/15/18
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	2/16/18
Analyst:	Raneem Sahtah	Date Analyzed:	2/23/18
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	0.0050 Liter(s)
Test Notes:			
Container ID:	AS01319		

Initial Pressure (psig): -1.87      Final Pressure (psig): 3.74

Container Dilution Factor: 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	140	40	ND	84	23	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	140	49	ND	29	9.9	
74-87-3	Chloromethane	ND	140	43	ND	70	21	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	140	55	ND	21		7.8
75-01-4	Vinyl Chloride	ND	140	49	ND	56	19	
106-99-0	1,3-Butadiene	ND	140	63	ND	65	29	
74-83-9	Bromomethane	ND	140	55	ND	37	14	
75-00-3	Chloroethane	ND	140	49	ND	55	19	
64-17-5	Ethanol	ND	1,400	230	ND	760	120	
75-05-8	Acetonitrile	ND	140	52	ND	86	31	
107-02-8	Acrolein	ND	580	49	ND	250	21	
67-64-1	Acetone	ND	1,400	220	ND	610	93	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	140	49	ND	26	8.7	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,400	120	ND	590	49	
107-13-1	Acrylonitrile	ND	140	49	ND	66	23	
75-35-4	1,1-Dichloroethene	ND	140	49	ND	36	12	
75-09-2	Methylene Chloride	ND	140	49	ND	41	14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	140	46	ND	46	15	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	140	49	ND	19	6.4	
75-15-0	Carbon Disulfide	ND	1,400	43	ND	460	14	
156-60-5	trans-1,2-Dichloroethene	ND	140	55	ND	36	14	
75-34-3	1,1-Dichloroethane	ND	140	46	ND	36	11	
1634-04-4	Methyl tert-Butyl Ether	ND	140	49	ND	40	14	
108-05-4	Vinyl Acetate	ND	1,400	190	ND	410	53	
78-93-3	2-Butanone (MEK)	ND	1,400	60	ND	490	21	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-SG002-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-006

Test Code:	EPA TO-15	Date Collected:	2/15/18
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	2/16/18
Analyst:	Raneem Sahtah	Date Analyzed:	2/23/18
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	0.0050 Liter(s)
Test Notes:			
Container ID:	AS01319		

Initial Pressure (psig): -1.87      Final Pressure (psig): 3.74

Container Dilution Factor: 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	140	46	ND	36	12	
141-78-6	Ethyl Acetate	ND	290	100	ND	80	28	
110-54-3	n-Hexane	ND	140	43	ND	41	12	
67-66-3	Chloroform	ND	140	49	ND	29	10	
109-99-9	Tetrahydrofuran (THF)	ND	140	58	ND	49	20	
107-06-2	1,2-Dichloroethane	ND	140	46	ND	36	11	
71-55-6	1,1,1-Trichloroethane	ND	140	49	ND	26	9.0	
71-43-2	Benzene	ND	140	46	ND	45	14	
56-23-5	Carbon Tetrachloride	ND	140	43	ND	23	6.9	
110-82-7	Cyclohexane	ND	290	84	ND	84	24	
78-87-5	1,2-Dichloropropane	ND	140	46	ND	31	10	
75-27-4	Bromodichloromethane	ND	140	43	ND	22	6.5	
79-01-6	Trichloroethene	530	140	40	98	27	7.5	
123-91-1	1,4-Dioxane	ND	140	46	ND	40	13	
80-62-6	Methyl Methacrylate	ND	290	89	ND	70	22	
142-82-5	n-Heptane	ND	140	49	ND	35	12	
10061-01-5	cis-1,3-Dichloropropene	ND	140	40	ND	32	8.9	
108-10-1	4-Methyl-2-pentanone	ND	140	46	ND	35	11	
10061-02-6	trans-1,3-Dichloropropene	ND	140	46	ND	32	10	
79-00-5	1,1,2-Trichloroethane	ND	140	46	ND	26	8.4	
108-88-3	Toluene	ND	140	49	ND	38	13	
591-78-6	2-Hexanone	ND	140	46	ND	35	11	
124-48-1	Dibromochloromethane	ND	140	46	ND	17	5.4	
106-93-4	1,2-Dibromoethane	ND	140	46	ND	19	6.0	
123-86-4	n-Butyl Acetate	ND	140	46	ND	30	9.7	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-SG002-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-006

Test Code:	EPA TO-15	Date Collected:	2/15/18
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	2/16/18
Analyst:	Raneem Sahtah	Date Analyzed:	2/23/18
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	0.0050 Liter(s)
Test Notes:			
Container ID:	AS01319		

Initial Pressure (psig): -1.87      Final Pressure (psig): 3.74

Container Dilution Factor: 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	ND	140	52	ND	31	11	
127-18-4	Tetrachloroethene	23,000	140	40	3,300	21	5.9	
108-90-7	Chlorobenzene	ND	140	46	ND	31	10	
100-41-4	Ethylbenzene	ND	140	46	ND	33	11	
179601-23-1	m,p-Xylenes	ND	290	86	ND	66	20	
75-25-2	Bromoform	ND	140	43	ND	14	4.2	
100-42-5	Styrene	ND	140	43	ND	34	10	
95-47-6	o-Xylene	ND	140	43	ND	33	9.9	
111-84-2	n-Nonane	ND	140	43	ND	27	8.2	
79-34-5	1,1,2,2-Tetrachloroethane	ND	140	43	ND	21	6.3	
98-82-8	Cumene	ND	140	43	ND	29	8.8	
80-56-8	alpha-Pinene	ND	140	40	ND	26	7.2	
103-65-1	n-Propylbenzene	ND	140	46	ND	29	9.4	
622-96-8	4-Ethyltoluene	ND	140	46	ND	29	9.4	
108-67-8	1,3,5-Trimethylbenzene	ND	140	46	ND	29	9.4	
95-63-6	1,2,4-Trimethylbenzene	ND	140	43	ND	29	8.8	
100-44-7	Benzyl Chloride	ND	290	32	ND	56	6.1	
541-73-1	1,3-Dichlorobenzene	ND	140	43	ND	24	7.2	
106-46-7	1,4-Dichlorobenzene	ND	140	40	ND	24	6.7	
95-50-1	1,2-Dichlorobenzene	ND	140	43	ND	24	7.2	
5989-27-5	d-Limonene	ND	140	40	ND	26	7.2	
96-12-8	1,2-Dibromo-3-chloropropane	ND	140	29	ND	15	3.0	
120-82-1	1,2,4-Trichlorobenzene	ND	140	46	ND	19	6.2	
91-20-3	Naphthalene	ND	140	52	ND	27	9.9	
87-68-3	Hexachlorobutadiene	ND	140	40	ND	14	3.8	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-SG003-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-007

Test Code:	EPA TO-15	Date Collected:	2/15/18
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	2/16/18
Analyst:	Raneem Sahtah	Date Analyzed:	2/23/18
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	0.010 Liter(s)
Test Notes:			
Container ID:	SC01499		

Initial Pressure (psig): -1.87      Final Pressure (psig): 3.98

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	73	20	ND	42	12	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	73	25	ND	15	5.0	
74-87-3	Chloromethane	ND	73	22	ND	35	11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	73	28	ND	10		4.0
75-01-4	Vinyl Chloride	ND	73	25	ND	29		9.7
106-99-0	1,3-Butadiene	ND	73	32	ND	33		15
74-83-9	Bromomethane	ND	73	28	ND	19		7.1
75-00-3	Chloroethane	ND	73	25	ND	28		9.4
64-17-5	Ethanol	ND	730	120	ND	390		62
75-05-8	Acetonitrile	ND	73	26	ND	43		16
107-02-8	Acrolein	ND	290	25	ND	130		11
67-64-1	Acetone	ND	730	110	ND	310		47
75-69-4	Trichlorofluoromethane (CFC 11)	ND	73	25	ND	13		4.4
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	730	61	ND	300		25
107-13-1	Acrylonitrile	ND	73	25	ND	34		11
75-35-4	1,1-Dichloroethene	ND	73	25	ND	18		6.3
75-09-2	Methylene Chloride	ND	73	25	ND	21		7.1
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	73	23	ND	23		7.5
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	73	25	ND	9.5		3.2
75-15-0	Carbon Disulfide	ND	730	22	ND	230		7.0
156-60-5	trans-1,2-Dichloroethene	ND	73	28	ND	18		7.0
75-34-3	1,1-Dichloroethane	ND	73	23	ND	18		5.8
1634-04-4	Methyl tert-Butyl Ether	ND	73	25	ND	20		6.9
108-05-4	Vinyl Acetate	ND	730	95	ND	210		27
78-93-3	2-Butanone (MEK)	ND	730	31	ND	250		10

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-SG003-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-007

**Test Code:** EPA TO-15      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13      **Date Received:** 2/16/18  
**Analyst:** Raneem Sahtah      **Date Analyzed:** 2/23/18  
**Sample Type:** 6.0 L Summa Canister      **Volume(s) Analyzed:** 0.010 Liter(s)  
**Test Notes:**  
**Container ID:** SC01499

Initial Pressure (psig): -1.87      Final Pressure (psig): 3.98

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	73	23	ND	18	5.9	
141-78-6	Ethyl Acetate	ND	150	51	ND	41	14	
110-54-3	n-Hexane	ND	73	22	ND	21	6.2	
67-66-3	Chloroform	ND	73	25	ND	15	5.1	
109-99-9	Tetrahydrofuran (THF)	ND	73	29	ND	25	9.9	
107-06-2	1,2-Dichloroethane	ND	73	23	ND	18	5.8	
71-55-6	1,1,1-Trichloroethane	ND	73	25	ND	13	4.6	
71-43-2	Benzene	ND	73	23	ND	23	7.3	
56-23-5	Carbon Tetrachloride	ND	73	22	ND	12	3.5	
110-82-7	Cyclohexane	ND	150	42	ND	42	12	
78-87-5	1,2-Dichloropropane	ND	73	23	ND	16	5.1	
75-27-4	Bromodichloromethane	ND	73	22	ND	11	3.3	
79-01-6	Trichloroethene	150	73	20	27	14	3.8	
123-91-1	1,4-Dioxane	ND	73	23	ND	20	6.5	
80-62-6	Methyl Methacrylate	ND	150	45	ND	36	11	
142-82-5	n-Heptane	ND	73	25	ND	18	6.1	
10061-01-5	cis-1,3-Dichloropropene	ND	73	20	ND	16	4.5	
108-10-1	4-Methyl-2-pentanone	ND	73	23	ND	18	5.7	
10061-02-6	trans-1,3-Dichloropropene	ND	73	23	ND	16	5.1	
79-00-5	1,1,2-Trichloroethane	ND	73	23	ND	13	4.3	
108-88-3	Toluene	ND	73	25	ND	19	6.6	
591-78-6	2-Hexanone	ND	73	23	ND	18	5.7	
124-48-1	Dibromochloromethane	ND	73	23	ND	8.6	2.7	
106-93-4	1,2-Dibromoethane	ND	73	23	ND	9.5	3.0	
123-86-4	n-Butyl Acetate	ND	73	23	ND	15	4.9	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-SG003-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-007

**Test Code:** EPA TO-15      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13      **Date Received:** 2/16/18  
**Analyst:** Raneem Sahtah      **Date Analyzed:** 2/23/18  
**Sample Type:** 6.0 L Summa Canister      **Volume(s) Analyzed:** 0.010 Liter(s)  
**Test Notes:**  
**Container ID:** SC01499

Initial Pressure (psig): -1.87      Final Pressure (psig): 3.98

Container Dilution Factor: 1.46

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data Qualifier
		µg/m³	µg/m³	µg/m³	ppbV	ppbV	ppbV	
111-65-9	n-Octane	ND	73	26	ND	16	5.6	
127-18-4	Tetrachloroethene	12,000	73	20	1,800	11	3.0	
108-90-7	Chlorobenzene	ND	73	23	ND	16	5.1	
100-41-4	Ethylbenzene	ND	73	23	ND	17	5.4	
179601-23-1	m,p-Xylenes	ND	150	44	ND	34	10	
75-25-2	Bromoform	ND	73	22	ND	7.1	2.1	
100-42-5	Styrene	ND	73	22	ND	17	5.1	
95-47-6	o-Xylene	ND	73	22	ND	17	5.0	
111-84-2	n-Nonane	ND	73	22	ND	14	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	ND	73	22	ND	11	3.2	
98-82-8	Cumene	ND	73	22	ND	15	4.5	
80-56-8	alpha-Pinene	ND	73	20	ND	13	3.7	
103-65-1	n-Propylbenzene	ND	73	23	ND	15	4.8	
622-96-8	4-Ethyltoluene	ND	73	23	ND	15	4.8	
108-67-8	1,3,5-Trimethylbenzene	ND	73	23	ND	15	4.8	
95-63-6	1,2,4-Trimethylbenzene	ND	73	22	ND	15	4.5	
100-44-7	Benzyl Chloride	ND	150	16	ND	28	3.1	
541-73-1	1,3-Dichlorobenzene	ND	73	22	ND	12	3.6	
106-46-7	1,4-Dichlorobenzene	ND	73	20	ND	12	3.4	
95-50-1	1,2-Dichlorobenzene	ND	73	22	ND	12	3.6	
5989-27-5	d-Limonene	ND	73	20	ND	13	3.7	
96-12-8	1,2-Dibromo-3-chloropropane	ND	73	14	ND	7.6	1.5	
120-82-1	1,2,4-Trichlorobenzene	ND	73	23	ND	9.8	3.1	
91-20-3	Naphthalene	ND	73	26	ND	14	5.0	
87-68-3	Hexachlorobutadiene	ND	73	20	ND	6.8	1.9	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-SG003-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-013

<b>Test Code:</b>	EPA TO-15	<b>Date Collected:</b>	2/15/18
<b>Instrument ID:</b>	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	<b>Date Received:</b>	2/16/18
<b>Analyst:</b>	Raneem Sahtah	<b>Date Analyzed:</b>	2/23/18
<b>Sample Type:</b>	6.0 L Summa Canister	<b>Volume(s) Analyzed:</b>	0.25 Liter(s)
<b>Test Notes:</b>			
<b>Container ID:</b>	SC01903		

Initial Pressure (psig): -2.84      Final Pressure (psig): 3.97

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	3.1	0.88	ND	1.8	0.51	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	3.1	1.1	0.53	0.64	0.22	J
74-87-3	Chloromethane	ND	3.1	0.94	ND	1.5	0.46	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	3.1	1.2	ND	0.45	0.17	
75-01-4	Vinyl Chloride	ND	3.1	1.1	ND	1.2	0.42	
106-99-0	1,3-Butadiene	ND	3.1	1.4	ND	1.4	0.62	
74-83-9	Bromomethane	ND	3.1	1.2	ND	0.81	0.31	
75-00-3	Chloroethane	ND	3.1	1.1	ND	1.2	0.40	
64-17-5	Ethanol	ND	31	5.0	ND	17	2.7	
75-05-8	Acetonitrile	ND	3.1	1.1	ND	1.9	0.67	
107-02-8	Acrolein	ND	13	1.1	ND	5.5	0.47	
67-64-1	Acetone	21	31	4.8	8.8	13	2.0	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.3	3.1	1.1	0.24	0.56	0.19	J
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	31	2.6	ND	13	1.1	
107-13-1	Acrylonitrile	ND	3.1	1.1	ND	1.4	0.49	
75-35-4	1,1-Dichloroethene	ND	3.1	1.1	ND	0.79	0.27	
75-09-2	Methylene Chloride	ND	3.1	1.1	ND	0.90	0.31	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	3.1	1.0	ND	1.0	0.32	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	3.1	1.1	ND	0.41	0.14	
75-15-0	Carbon Disulfide	1.2	31	0.94	0.40	10	0.30	J
156-60-5	trans-1,2-Dichloroethene	ND	3.1	1.2	ND	0.79	0.30	
75-34-3	1,1-Dichloroethane	ND	3.1	1.0	ND	0.78	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	3.1	1.1	ND	0.87	0.30	
108-05-4	Vinyl Acetate	ND	31	4.1	ND	8.9	1.2	
78-93-3	2-Butanone (MEK)	1.5	31	1.3	0.52	11	0.45	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-SG003-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-013

<b>Test Code:</b>	EPA TO-15	<b>Date Collected:</b>	2/15/18
<b>Instrument ID:</b>	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	<b>Date Received:</b>	2/16/18
<b>Analyst:</b>	Raneem Sahtah	<b>Date Analyzed:</b>	2/23/18
<b>Sample Type:</b>	6.0 L Summa Canister	<b>Volume(s) Analyzed:</b>	0.25 Liter(s)
<b>Test Notes:</b>			
<b>Container ID:</b>	SC01903		

Initial Pressure (psig): -2.84      Final Pressure (psig): 3.97

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	3.1	1.0	ND	0.79	0.25	
141-78-6	Ethyl Acetate	ND	6.3	2.2	ND	1.7	0.61	
110-54-3	n-Hexane	1.5	3.1	0.94	0.43	0.89	0.27	J
67-66-3	Chloroform	ND	3.1	1.1	ND	0.64	0.22	
109-99-9	Tetrahydrofuran (THF)	ND	3.1	1.3	ND	1.1	0.43	
107-06-2	1,2-Dichloroethane	ND	3.1	1.0	ND	0.78	0.25	
71-55-6	1,1,1-Trichloroethane	ND	3.1	1.1	ND	0.58	0.20	
71-43-2	Benzene	1.8	3.1	1.0	0.56	0.98	0.31	J
56-23-5	Carbon Tetrachloride	ND	3.1	0.94	ND	0.50	0.15	
110-82-7	Cyclohexane	ND	6.3	1.8	ND	1.8	0.53	
78-87-5	1,2-Dichloropropane	ND	3.1	1.0	ND	0.68	0.22	
75-27-4	Bromodichloromethane	ND	3.1	0.94	ND	0.47	0.14	
79-01-6	Trichloroethylene	13	3.1	0.88	2.4	0.58	0.16	
123-91-1	1,4-Dioxane	ND	3.1	1.0	ND	0.87	0.28	
80-62-6	Methyl Methacrylate	ND	6.3	1.9	ND	1.5	0.48	
142-82-5	n-Heptane	1.5	3.1	1.1	0.37	0.77	0.26	J
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.88	ND	0.69	0.19	
108-10-1	4-Methyl-2-pentanone	ND	3.1	1.0	ND	0.77	0.25	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	1.0	ND	0.69	0.22	
79-00-5	1,1,2-Trichloroethane	ND	3.1	1.0	ND	0.58	0.18	
108-88-3	Toluene	4.6	3.1	1.1	1.2	0.83	0.28	
591-78-6	2-Hexanone	ND	3.1	1.0	ND	0.77	0.25	
124-48-1	Dibromochloromethane	ND	3.1	1.0	ND	0.37	0.12	
106-93-4	1,2-Dibromoethane	ND	3.1	1.0	ND	0.41	0.13	
123-86-4	n-Butyl Acetate	ND	3.1	1.0	ND	0.66	0.21	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-SG003-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-013

Test Code:	EPA TO-15	Date Collected:	2/15/18
Instrument ID:	Teknar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	2/16/18
Analyst:	Raneem Sahtah	Date Analyzed:	2/23/18
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	0.25 Liter(s)
Test Notes:			
Container ID:	SC01903		

Initial Pressure (psig): -2.84      Final Pressure (psig): 3.97

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	1.1	3.1	1.1	0.25	0.67	0.24	J
127-18-4	Tetrachloroethene	640	3.1	0.88	95	0.46	0.13	
108-90-7	Chlorobenzene	ND	3.1	1.0	ND	0.68	0.22	
100-41-4	Ethylbenzene	5.3	3.1	1.0	1.2	0.72	0.23	
179601-23-1	m,p-Xylenes	11	6.3	1.9	2.5	1.4	0.43	
75-25-2	Bromoform	ND	3.1	0.94	ND	0.30	0.091	
100-42-5	Styrene	ND	3.1	0.94	ND	0.74	0.22	
95-47-6	o-Xylene	3.3	3.1	0.94	0.77	0.72	0.22	
111-84-2	n-Nonane	1.2	3.1	0.94	0.23	0.60	0.18	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	0.94	ND	0.46	0.14	
98-82-8	Cumene	1.0	3.1	0.94	0.20	0.64	0.19	J
80-56-8	alpha-Pinene	ND	3.1	0.88	ND	0.56	0.16	
103-65-1	n-Propylbenzene	1.2	3.1	1.0	0.24	0.64	0.20	J
622-96-8	4-Ethyltoluene	ND	3.1	1.0	ND	0.64	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	3.1	1.0	ND	0.64	0.20	
95-63-6	1,2,4-Trimethylbenzene	3.0	3.1	0.94	0.60	0.64	0.19	J
100-44-7	Benzyl Chloride	ND	6.3	0.69	ND	1.2	0.13	
541-73-1	1,3-Dichlorobenzene	ND	3.1	0.94	ND	0.52	0.16	
106-46-7	1,4-Dichlorobenzene	ND	3.1	0.88	ND	0.52	0.15	
95-50-1	1,2-Dichlorobenzene	ND	3.1	0.94	ND	0.52	0.16	
5989-27-5	d-Limonene	2.9	3.1	0.88	0.53	0.56	0.16	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	0.62	ND	0.32	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	3.1	1.0	ND	0.42	0.14	
91-20-3	Naphthalene	ND	3.1	1.1	ND	0.60	0.22	
87-68-3	Hexachlorobutadiene	ND	3.1	0.88	ND	0.29	0.082	

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# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-SG002-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-015

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Raneem Sahtah  
**Sample Type:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC01583

**Date Collected:** 2/15/18  
**Date Received:** 2/16/18  
**Date Analyzed:** 2/23/18 & 2/27/18  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.56      Final Pressure (psig): 3.65

Container Dilution Factor: 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.47	0.76	0.21	0.27	0.44	0.12	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3.4	0.76	0.26	0.69	0.15	0.052	
74-87-3	Chloromethane	ND	0.76	0.23	ND	0.37	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.76	0.29	ND	0.11	0.041	
75-01-4	Vinyl Chloride	ND	0.76	0.26	ND	0.30	0.10	
106-99-0	1,3-Butadiene	ND	0.76	0.33	ND	0.34	0.15	
74-83-9	Bromomethane	ND	0.76	0.29	ND	0.19	0.074	
75-00-3	Chloroethane	ND	0.76	0.26	ND	0.29	0.097	
64-17-5	Ethanol	4.3	7.6	1.2	2.3	4.0	0.64	J
75-05-8	Acetonitrile	ND	0.76	0.27	ND	0.45	0.16	
107-02-8	Acrolein	0.45	3.0	0.26	0.20	1.3	0.11	J
67-64-1	Acetone	13	7.6	1.2	5.6	3.2	0.49	
75-69-4	Trichlorofluoromethane (CFC 11)	1.5	0.76	0.26	0.26	0.13	0.046	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.72	7.6	0.63	0.29	3.1	0.26	J
107-13-1	Acrylonitrile	ND	0.76	0.26	ND	0.35	0.12	
75-35-4	1,1-Dichloroethene	ND	0.76	0.26	ND	0.19	0.065	
75-09-2	Methylene Chloride	ND	0.76	0.26	ND	0.22	0.074	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.76	0.24	ND	0.24	0.077	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.46	0.76	0.26	0.060	0.099	0.034	J
75-15-0	Carbon Disulfide	1.3	7.6	0.23	0.40	2.4	0.073	J
156-60-5	trans-1,2-Dichloroethene	ND	0.76	0.29	ND	0.19	0.072	
75-34-3	1,1-Dichloroethane	ND	0.76	0.24	ND	0.19	0.060	
1634-04-4	Methyl tert-Butyl Ether	ND	0.76	0.26	ND	0.21	0.071	
108-05-4	Vinyl Acetate	1.5	7.6	0.98	0.43	2.1	0.28	J
78-93-3	2-Butanone (MEK)	0.86	7.6	0.32	0.29	2.6	0.11	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-SG002-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-015

Test Code:	EPA TO-15	Date Collected:	2/15/18
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	2/16/18
Analyst:	Raneem Sahtah	Date Analyzed:	2/23/18 & 2/27/18
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:			0.025 Liter(s)
Container ID:	SC01583		

Initial Pressure (psig): -2.56      Final Pressure (psig): 3.65

Container Dilution Factor: 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.76	0.24	ND	0.19	0.061	
141-78-6	Ethyl Acetate	18	1.5	0.53	5.0	0.42	0.15	
110-54-3	n-Hexane	0.91	0.76	0.23	0.26	0.21	0.064	
67-66-3	Chloroform	2.0	0.76	0.26	0.41	0.15	0.053	
109-99-9	Tetrahydrofuran (THF)	0.91	0.76	0.30	0.31	0.26	0.10	
107-06-2	1,2-Dichloroethane	ND	0.76	0.24	ND	0.19	0.060	
71-55-6	1,1,1-Trichloroethane	0.62	0.76	0.26	0.11	0.14	0.047	J
71-43-2	Benzene	0.50	0.76	0.24	0.16	0.24	0.076	J
56-23-5	Carbon Tetrachloride	3.7	0.76	0.23	0.58	0.12	0.036	
110-82-7	Cyclohexane	ND	1.5	0.44	ND	0.44	0.13	
78-87-5	1,2-Dichloropropane	ND	0.76	0.24	ND	0.16	0.052	
75-27-4	Bromodichloromethane	0.36	0.76	0.23	0.054	0.11	0.034	J
79-01-6	Trichloroethene	33	0.76	0.21	6.2	0.14	0.039	
123-91-1	1,4-Dioxane	ND	0.76	0.24	ND	0.21	0.067	
80-62-6	Methyl Methacrylate	ND	1.5	0.47	ND	0.37	0.11	
142-82-5	n-Heptane	0.80	0.76	0.26	0.20	0.18	0.063	
10061-01-5	cis-1,3-Dichloropropene	ND	0.76	0.21	ND	0.17	0.047	
108-10-1	4-Methyl-2-pentanone	ND	0.76	0.24	ND	0.18	0.059	
10061-02-6	trans-1,3-Dichloropropene	ND	0.76	0.24	ND	0.17	0.053	
79-00-5	1,1,2-Trichloroethane	ND	0.76	0.24	ND	0.14	0.044	
108-88-3	Toluene	3.7	0.76	0.26	0.98	0.20	0.068	
591-78-6	2-Hexanone	ND	0.76	0.24	ND	0.18	0.059	
124-48-1	Dibromochloromethane	ND	0.76	0.24	ND	0.089	0.028	
106-93-4	1,2-Dibromoethane	ND	0.76	0.24	ND	0.098	0.031	
123-86-4	n-Butyl Acetate	0.42	0.76	0.24	0.088	0.16	0.051	J

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# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-SG002-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-015

Test Code:	EPA TO-15	Date Collected:	2/15/18
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received:	2/16/18
Analyst:	Raneem Sahtah	Date Analyzed:	2/23/18 & 2/27/18
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:			0.025 Liter(s)
Container ID:	SC01583		

Initial Pressure (psig): -2.56      Final Pressure (psig): 3.65

Container Dilution Factor: 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
111-65-9	n-Octane	0.50	0.76	0.27	0.11	0.16	0.058	J
127-18-4	Tetrachloroethene	3,800	30	8.5	560	4.5	1.2	D
108-90-7	Chlorobenzene	ND	0.76	0.24	ND	0.16	0.052	
100-41-4	Ethylbenzene	1.1	0.76	0.24	0.25	0.17	0.056	
179601-23-1	m,p-Xylenes	2.8	1.5	0.45	0.64	0.35	0.10	
75-25-2	Bromoform	ND	0.76	0.23	ND	0.073	0.022	
100-42-5	Styrene	ND	0.76	0.23	ND	0.18	0.053	
95-47-6	o-Xylene	0.64	0.76	0.23	0.15	0.17	0.052	J
111-84-2	n-Nonane	ND	0.76	0.23	ND	0.14	0.043	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.76	0.23	ND	0.11	0.033	
98-82-8	Cumene	ND	0.76	0.23	ND	0.15	0.046	
80-56-8	alpha-Pinene	0.39	0.76	0.21	0.069	0.14	0.038	J
103-65-1	n-Propylbenzene	ND	0.76	0.24	ND	0.15	0.049	
622-96-8	4-Ethyltoluene	ND	0.76	0.24	ND	0.15	0.049	
108-67-8	1,3,5-Trimethylbenzene	ND	0.76	0.24	ND	0.15	0.049	
95-63-6	1,2,4-Trimethylbenzene	ND	0.76	0.23	ND	0.15	0.046	
100-44-7	Benzyl Chloride	ND	1.5	0.17	ND	0.29	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.76	0.23	ND	0.13	0.038	
106-46-7	1,4-Dichlorobenzene	ND	0.76	0.21	ND	0.13	0.035	
95-50-1	1,2-Dichlorobenzene	ND	0.76	0.23	ND	0.13	0.038	
5989-27-5	d-Limonene	ND	0.76	0.21	ND	0.14	0.038	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.76	0.15	ND	0.078	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	0.76	0.24	ND	0.10	0.033	
91-20-3	Naphthalene	ND	0.76	0.27	ND	0.14	0.052	
87-68-3	Hexachlorobutadiene	ND	0.76	0.21	ND	0.071	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

# OTHER ANALYTES WORK TABLE

**PROJECT: Sweet Kleen Laundry Site**

**SAMPLING DATES: February 14 to 15, 2018**

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Ambient Air P001-AA001-180214-01 P1800714-001 AC01890 1.00 L 1.40				Indoor Air P002-IA001-180214-01 P1800714-002 AC02147 1.00 L 1.23			
	Result	MDL	Result	MDL	Result	MDL	Result	MDL
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv
Dichlorodifluoromethane (CFC 12)	2.2	0.024	0.44	0.0048	2.8	0.06	0.58	0.0042
Chloromethane	0.46	0.027	0.22	0.013	0.43	0.062	0.21	0.011
Vinyl Chloride	ND	0.011	ND	0.0042	ND	0.031	ND	0.0037
1,3-Butadiene	ND	0.020	ND	0.0089	ND	0.062	ND	0.0078
Bromomethane	0.024 J	0.013	0.0062 J	0.0034	0.023 J	0.031	0.0060 J	0.0029
Chloroethane	ND	0.012	ND	0.0045	0.014 J	0.031	0.0053 J	0.0040
Acrolein	0.15 J	0.055	0.065 J	0.024	0.24 J	0.25	0.11 J	0.021
Acetone	3.5 U	0.078	1.5 U	0.033	6.4 U	3.1	2.7 U	0.029
Trichlorodifluoromethane	1.0	0.021	0.19	0.0037	1.0	0.062	0.18	0.0033
1,1-Dichloroethene	ND	0.012	ND	0.0030	ND	0.031	ND	0.0027
Methylene Chloride	0.30	0.018	0.086	0.0052	0.29	0.12	0.084	0.0046
Trichlorotrifluoroethane	0.35	0.012	0.045	0.0016	0.36	0.031	0.047	0.0014
trans-1,2-Dichloroethene	0.013 J	0.010	0.0034 J	0.0026	ND	0.031	ND	0.0023
1,1-Dichloroethane	ND	0.0085	ND	0.0021	ND	0.031	ND	0.0019
Methyl tert-Butyl Ether	ND	0.013	ND	0.0036	ND	0.031	ND	0.0032
cis-1,2-Dichloroethene	0.093	0.013	0.023	0.0032	0.11	0.031	0.027	0.0029
Chloroform	0.088 J	0.025	0.018 J	0.0052	0.36	0.12	0.074	0.0045
1,2-Dichloroethane	0.065	0.012	0.016	0.0029	0.066	0.031	0.016	0.0026
1,1,1-Trichloroethane	0.012 J	0.0083	0.0022 J	0.0015	0.013 J	0.031	0.0023 J	0.0013
Benzene	0.58	0.028	0.18	0.0088	0.61	0.092	0.19	0.0077
Carbon Tetrachloride	0.40	0.017	0.064	0.0027	0.41	0.031	0.065	0.0023
1,2-Dichloropropane	0.019 J	0.010	0.0042 J	0.0022	0.019 J	0.031	0.0042 J	0.0019
Bromodichloromethane	ND	0.0097	ND	0.0014	0.16	0.031	0.023	0.0013
Trichloroethene	0.048	0.012	0.0089	0.0022	0.16	0.031	0.029	0.0019
1,4-Dioxane	0.012	0.012	0.0033	0.0033	0.14	0.010	0.038	0.0029
cis-1,3-Dichloropropene	ND	0.0087	ND	0.0019	ND	0.0076	ND	0.0017
trans-1,3-Dichloropropene	ND	0.0077	ND	0.0017	ND	0.0068	ND	0.0015
1,1,2-Trichloroethane	ND	0.011	ND	0.0020	ND	0.0097	ND	0.0018
Toluene	0.65	0.015	0.17	0.0041	0.65	0.014	0.17	0.0036
Dibromochloromethane	ND	0.012	ND	0.0014	0.061	0.011	0.0072	0.0013
1,2-Dibromoethane	ND	0.011	ND	0.0014	ND	0.0097	ND	0.0013
Tetrachloroethene	0.49	0.011	0.072	0.0017	7.5	0.010	1.1	0.0015
Chlorobenzene	ND	0.013		0.0028	ND	0.011	ND	0.0025
Ethylbenzene	0.098	0.014	0.023	0.0031	0.11 J	0.012	0.026 J	0.0027
m,p-Xylenes	0.25	0.027	0.058	0.0061	0.31	0.023	0.071	0.0054
Styrene	0.023	0.010	0.0053	0.0024	0.047 J	0.0091	0.011 J	0.0021
o-Xylene	0.11	0.012	0.026	0.0029	0.14	0.011	0.032	0.0025
1,1,2,2-Tetrachloroethane	ND	0.010	ND	0.0015	ND	0.0089	ND	0.0013

# OTHER ANALYTES WORK TABLE

**PROJECT:** Sweet Kleen Laundry Site

**SAMPLING DATES:** February 14 to 15, 2018

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Ambient Air				Indoor Air			
	P001-AA001-180214-01 P1800714-001 AC01890 1.00 L 1.40				P002-IA001-180214-01 P1800714-002 AC02147 1.00 L 1.23			
	Result	MDL	Result	MDL	Result	MDL	Result	MDL
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv
1,3,5-Trimethylbenzene	<b>0.029</b>	0.010	<b>0.0059</b>	0.0021	<b>0.081 J</b>	0.0090	<b>0.016 J</b>	0.0018
1,2,4-Trimethylbenzene	<b>0.10</b>	0.012	<b>0.021</b>	0.0024	0.27	0.010	<b>0.055</b>	0.0021
1,3-Dichlorobenzene	ND	0.012	ND	0.0020	ND	0.010	ND	0.0017
1,4-Dichlorobenzene	ND	0.011	ND	0.0019	<b>0.013 J</b>	0.010	<b>0.0021 J</b>	0.0017
1,2-Dichlorobenzene	ND	0.012	ND	0.0019	ND	0.010	ND	0.0017
1,2-Dibromo-3-chloropropane	ND	0.013	ND	0.0014	ND	0.012	ND	0.0012
1,2,4-Trichlorobenzene	ND	0.018	ND	0.0025	ND	0.016	ND	0.0022
Naphthalene	ND	0.022	ND	0.0043	0.23	0.020	<b>0.043</b>	0.0038
Hexachlorobutadiene	ND	0.013	ND	0.0012	ND	0.011	ND	0.0011

MDL - Method Detection Limit

ND - non-detected compound

J - estimated value

Bold result-detected value

# OTHER ANALYTES WORK TABLE

**PROJECT: Sweet Kleen Laundry Site**

**SAMPLING DATES: February 14 to 15, 2018**

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Indoor Air				Indoor Air							
	P002-IA002-180214-01		P002-IA003-180214-01									
	P1800714-003		P1800714-004									
	SC02184		AS01293									
	1.00 L		1.00 L									
1.27		1.20										
TO-15 VOCs	Result	MDL	Result	MDL	Result	MDL	Result	MDL				
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv				
Dichlorodifluoromethane (CFC 12)	3.7	0.022	0.75	0.0044	8.9	0.020	1.8	0.0041				
Chloromethane	0.44	0.024	0.21	0.012	0.22	0.023	0.11	0.011				
Vinyl Chloride	ND	0.0097	ND	0.0038	ND	0.0091	ND	0.0036				
1,3-Butadiene	ND	0.018	ND	0.0080	ND	0.017	ND	0.0076				
Bromomethane	0.022 J	0.012	0.0058 J	0.0030	0.032	0.011	0.0083	0.0029				
Chloroethane	0.016 J	0.011	0.0061 J	0.0041	0.028 J	0.010	0.010 J	0.0039				
Acrolein	0.10 J	0.050	0.044 J	0.022	0.22 J	0.047	0.094 J	0.020				
Acetone	3.2 U	0.071	1.3 U	0.030	3.0 U	0.067	1.3 U	0.028				
Trichlorodifluoromethane	1.0	0.019	0.18	0.0034	1.1	0.018	0.19	0.0032				
1,1-Dichloroethene	ND	0.011	ND	0.0028	ND	0.010	ND	0.0026				
Methylene Chloride	0.29	0.017	0.083	0.0048	0.30	0.016	0.088	0.0045				
Trichlorotrifluoroethane	0.36	0.011	0.047	0.0015	0.35	0.011	0.046	0.0014				
trans-1,2-Dichloroethene	ND	0.0093	ND	0.0023	ND	0.0088	ND	0.0022				
1,1-Dichloroethane	ND	0.0077	ND	0.0019	ND	0.0073	ND	0.0018				
Methyl tert-Butyl Ether	ND	0.012	ND	0.0033	ND	0.011	ND	0.0031				
cis-1,2-Dichloroethene	0.028 J	0.012	0.0071 J	0.0029	0.018 J	0.011	0.0046 J	0.0028				
Chloroform	0.14	0.023	0.028	0.0047	0.11 J	0.022	0.022 J	0.0044				
1,2-Dichloroethane	0.063	0.011	0.016	0.0026	0.065	0.010	0.016	0.0025				
1,1,1-Trichloroethane	0.011 J	0.0075	0.0021 J	0.0014	0.011 J	0.0071	0.0021 J	0.0013				
Benzene	0.60	0.025	0.19	0.0080	0.70	0.024	0.22	0.0075				
Carbon Tetrachloride	0.40	0.015	0.063	0.0024	0.40	0.014	0.064	0.0023				
1,2-Dichloropropane	0.019 J	0.0093	0.0040 J	0.0020	0.020 J	0.0088	0.0043 J	0.0019				
Bromodichloromethane	0.029 J	0.0088	0.0044 J	0.0013	0.022 J	0.0083	0.0033 J	0.0012				
Trichloroethene	0.084	0.011	0.016	0.0020	0.053	0.010	0.0099	0.0019				
1,4-Dioxane	0.059 J	0.011	0.016 J	0.0030	0.023 J	0.010	0.0064 J	0.0028				
cis-1,3-Dichloropropene	ND	0.0079	ND	0.0017	ND	0.0074	ND	0.0016				
trans-1,3-Dichloropropene	ND	0.0070	ND	0.0015	ND	0.0066	ND	0.0015				
1,1,2-Trichloroethane	ND	0.010	ND	0.0018	ND	0.0095	ND	0.0017				
Toluene	0.65	0.014	0.17	0.0037	0.79	0.013	0.21	0.0035				
Dibromochloromethane	ND	0.011	ND	0.0013	0.012 J	0.011	0.0014 J	0.0012				
1,2-Dibromoethane	ND	0.010	ND	0.0013	ND	0.0095	ND	0.0012				
Tetrachloroethene	4.3	0.010	0.64	0.0015	2.2	0.0098	0.32	0.0015				
Chlorobenzene	ND	0.012	ND	0.0025	ND	0.011	ND	0.0024				
Ethylbenzene	0.11 J	0.012	0.026 J	0.0028	0.13	0.012	0.029	0.0027				
m,p-Xylenes	0.29	0.024	0.068	0.0056	0.29	0.023	0.068	0.0053				
Styrene	0.076 J	0.0094	0.018 J	0.0022	0.046 J	0.0089	0.011 J	0.0021				
o-Xylene	0.13	0.011	0.031	0.0026	0.13	0.011	0.031	0.0025				
1,1,2,2-Tetrachloroethane	ND	0.0091	ND	0.0013	ND	0.0086	ND	0.0013				

# OTHER ANALYTES WORK TABLE

**PROJECT:** Sweet Kleen Laundry Site

**SAMPLING DATES:** February 14 to 15, 2018

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Indoor Air				Indoor Air							
	P002-IA002-180214-01		P002-IA003-180214-01									
	P1800714-003		P1800714-004									
	SC02184		AS01293									
	1.00 L		1.00 L									
1.27		1.20										
TO-15 VOCs	Result	MDL	Result	MDL	Result	MDL	Result	MDL				
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv				
1,3,5-Trimethylbenzene	<b>0.059 J</b>	0.0093	<b>0.012 J</b>	0.0019	<b>0.048 J</b>	0.0088	<b>0.0098 J</b>	0.0018				
1,2,4-Trimethylbenzene	<b>0.20</b>	0.011	<b>0.040</b>	0.0021	<b>0.17</b>	0.010	<b>0.034</b>	0.0020				
1,3-Dichlorobenzene	ND	0.011	ND	0.0018	ND	0.010	ND	0.0017				
1,4-Dichlorobenzene	<b>0.012 J</b>	0.010	<b>0.0020 J</b>	0.0017	<b>0.015 J</b>	0.0097	<b>0.0024 J</b>	0.0016				
1,2-Dichlorobenzene	ND	0.011	ND	0.0018	ND	0.010	ND	0.0017				
1,2-Dibromo-3-chloropropane	ND	0.012	ND	0.0012	ND	0.011	ND	0.0012				
1,2,4-Trichlorobenzene	ND	0.017	ND	0.0022	<b>0.049 J</b>	0.016	<b>0.0066 J</b>	0.0021				
Naphthalene	<b>0.11 J</b>	0.020	<b>0.022 J</b>	0.0039	<b>0.33</b>	0.019	<b>0.064</b>	0.0037				
Hexachlorobutadiene	ND	0.012	ND	0.0011	ND	0.011	ND	0.0010				

MDL - Method Detection Limit

ND - non-detected compound

J - estimated value

Bold result-detected value

# OTHER ANALYTES WORK TABLE

**PROJECT: Sweet Kleen Laundry Site**

**SAMPLING DATES: February 14 to 15, 2018**

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Indoor Air				Indoor Air			
	P005-IA002-180214-01		P1800714-008		P005-IA003-180214-01		P1800714-009	
			AS01322				AS01058	
	1.00 L		1.46		1.00 L		1.33	
TO-15 VOCs	Result µg/m3	MDL µg/m3	Result ppbv	MDL ppbv	Result µg/m3	MDL µg/m3	Result ppbv	MDL ppbv
Dichlorodifluoromethane (CFC 12)	2.1	0.025	0.43	0.0050	2.1	0.023	0.43	0.0046
Chloromethane	0.45	0.028	0.22	0.013	0.47	0.025	0.23	0.012
Vinyl Chloride	ND	0.011	ND	0.0043	ND	0.010	ND	0.0040
1,3-Butadiene	0.13	0.020	0.061	0.0092	0.11	0.019	0.050	0.0084
Bromomethane	0.027 J	0.014	0.0070 J	0.0035	0.024 J	0.012	0.0062 J	0.0032
Chloroethane	0.018 J	0.012	0.0067 J	0.0047	0.032 J	0.011	0.012 J	0.0043
Acrolein	0.69	0.057	0.30	0.025	ND	0.052	ND	0.023
Acetone	80 B	0.082	34 B	0.034	82 B	0.074	34 B	0.031
Trichlorofluoromethane	1.5	0.022	0.28	0.0039	1.4	0.020	0.25	0.0036
1,1-Dichloroethene	ND	0.013	ND	0.0032	ND	0.011	ND	0.0029
Methylene Chloride	2.6	0.019	0.74	0.0055	1.8	0.017	0.52	0.0050
Trichlorotrifluoroethane	0.36	0.013	0.047	0.0017	0.36	0.012	0.047	0.0015
trans-1,2-Dichloroethene	ND	0.011	ND	0.0027	0.016 J	0.0097	0.0041 J	0.0024
1,1-Dichloroethane	ND	0.0089	ND	0.0022	ND	0.0081	ND	0.0020
Methyl tert-Butyl Ether	ND	0.014	ND	0.0038	ND	0.012	ND	0.0034
cis-1,2-Dichloroethene	0.059	0.013	0.015	0.0034	0.11	0.012	0.029	0.0031
Chloroform	0.12 J	0.026	0.026 J	0.0054	0.13 J	0.024	0.027 J	0.0049
1,2-Dichloroethane	0.17	0.012	0.041	0.0030	0.27	0.011	0.067	0.0028
1,1,1-Trichloroethane	0.022 J	0.0086	0.0040 J	0.0016	0.020 J	0.0078	0.0036 J	0.0014
Benzene	2.1	0.029	0.67	0.0091	1.7	0.027	0.53	0.0083
Carbon Tetrachloride	0.41	0.018	0.065	0.0028	0.41	0.016	0.065	0.0025
1,2-Dichloropropane	0.023 J	0.011	0.0050 J	0.0023	0.022 J	0.0097	0.0048 J	0.0021
Bromodichloromethane	ND	0.010	ND	0.0015	ND	0.0092	ND	0.0014
Trichloroethene	0.087	0.012	0.016	0.0023	0.15	0.011	0.028	0.0021
1,4-Dioxane	ND	0.012	ND	0.0034	0.035 J	0.011	0.0096 J	0.0031
cis-1,3-Dichloropropene	ND	0.0091	ND	0.0020	ND	0.0082	ND	0.0018
trans-1,3-Dichloropropene	ND	0.0080	ND	0.0018	ND	0.0073	ND	0.0016
1,1,2-Trichloroethane	ND	0.012	ND	0.0021	ND	0.011	ND	0.0019
Toluene	12	0.016	3.1	0.0043	11	0.015	3.0	0.0039
Dibromochloromethane	ND	0.013	ND	0.0015	ND	0.012	ND	0.0014
1,2-Dibromoethane	ND	0.012	ND	0.0015	ND	0.011	ND	0.0014
Tetrachloroethene	2.8	0.012	0.41	0.0018	3.3	0.011	0.48	0.0016
Chlorobenzene	0.021 J	0.013	0.0046 J	0.0029	0.016 J	0.012	0.0036 J	0.0027
Ethylbenzene	1.3	0.014	0.29	0.0033	1.7	0.013	0.40	0.0030
m,p-Xylenes	5.1	0.028	1.2	0.0064	7.9	0.025	1.8	0.0058
Styrene	0.67	0.011	0.16	0.0025	0.45	0.0098	0.11	0.0023
o-Xylene	2.3	0.013	0.52	0.0030	4.1	0.012	0.94	0.0027
1,1,2,2-Tetrachloroethane	ND	0.011	ND	0.0015	ND	0.0096	ND	0.0014

# OTHER ANALYTES WORK TABLE

**PROJECT:** Sweet Kleen Laundry Site

**SAMPLING DATES:** February 14 to 15, 2018

<b>Matrix:</b> <b>Client ID#:</b> <b>Lab ID#:</b> <b>Canister ID:</b> <b>Volume Analyzed:</b> <b>Dilution Factor</b>	<b>Indoor Air</b> <b>P005-IA002-180214-01</b> <b>P1800714-008</b> <b>AS01322</b> <b>1.00 L</b> <b>1.46</b>				<b>Indoor Air</b> <b>P005-IA003-180214-01</b> <b>P1800714-009</b> <b>AS01058</b> <b>1.00 L</b> <b>1.33</b>			
	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv
	<b>1,3,5-Trimethylbenzene</b>	<b>0.38</b>	<b>0.011</b>	<b>0.078</b>	<b>0.0022</b>	<b>0.30</b>	<b>0.0097</b>	<b>0.062</b>
	<b>1,2,4-Trimethylbenzene</b>	<b>1.3</b>	<b>0.012</b>	<b>0.27</b>	<b>0.0025</b>	<b>1.1</b>	<b>0.011</b>	<b>0.22</b>
<b>TO-15 VOCs</b>	<b>ND</b>	<b>0.012</b>	<b>ND</b>	<b>0.0021</b>	<b>ND</b>	<b>0.011</b>	<b>ND</b>	<b>0.0019</b>
<b>1,4-Dichlorobenzene</b>	<b>0.017 J</b>	<b>0.012</b>	<b>0.0029 J</b>	<b>0.0020</b>	<b>0.016 J</b>	<b>0.011</b>	<b>0.0027 J</b>	<b>0.0018</b>
<b>1,2-Dichlorobenzene</b>	<b>ND</b>	<b>0.012</b>	<b>ND</b>	<b>0.0020</b>	<b>ND</b>	<b>0.011</b>	<b>ND</b>	<b>0.0018</b>
<b>1,2-Dibromo-3-chloropropane</b>	<b>ND</b>	<b>0.014</b>	<b>ND</b>	<b>0.0014</b>	<b>ND</b>	<b>0.013</b>	<b>ND</b>	<b>0.0013</b>
<b>1,2,4-Trichlorobenzene</b>	<b>0.022 J</b>	<b>0.019</b>	<b>0.0029 J</b>	<b>0.0026</b>	<b>ND</b>	<b>0.017</b>	<b>ND</b>	<b>0.0023</b>
<b>Naphthalene</b>	<b>0.69</b>	<b>0.023</b>	<b>0.13</b>	<b>0.0045</b>	<b>0.84</b>	<b>0.021</b>	<b>0.16</b>	<b>0.0041</b>
<b>Hexachlorobutadiene</b>	<b>ND</b>	<b>0.013</b>	<b>ND</b>	<b>0.0013</b>	<b>ND</b>	<b>0.012</b>	<b>ND</b>	<b>0.0011</b>

MDL - Method Detection Limit

ND - non-detected compound

J - estimated value

B - Analyte detected in both the sample and associated method blank.

**Bold result**-detected value

# OTHER ANALYTES WORK TABLE

**PROJECT: Sweet Kleen Laundry Site**

**SAMPLING DATES: February 14 to 15, 2018**

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Indoor Air P005-IA004-180214-01 P1800714-010 AC01844 1.00 L 1.41				Indoor Air P005-IA005-180214-01 P1800714-011 AS01294 1.00 L 1.35			
	Result	MDL	Result	MDL	Result	MDL	Result	MDL
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv
Dichlorodifluoromethane (CFC 12)	2.1	0.024	0.43	0.0048	2.2	0.02	0.44	0.0046
Chloromethane	0.41	0.027	0.20	0.013	0.45	0.026	0.22	0.012
Vinyl Chloride	ND	0.011	ND	0.0042	ND	0.010	ND	0.0040
1,3-Butadiene	0.064 J	0.020	0.029 J	0.0089	0.12	0.019	0.056	0.0085
Bromomethane	0.023 J	0.013	0.0059 J	0.0034	0.029 J	0.013	0.0075 J	0.0032
Chloroethane	0.016 J	0.012	0.0060 J	0.0045	0.017 J	0.011	0.0063 J	0.0044
Acrolein	ND	0.055	ND	0.024	0.61	0.053	0.27	0.023
Acetone	31 B	0.079	13 B	0.033	50 B	0.076	21 B	0.032
Trichlorodifluoromethane	2.5	0.021	0.44	0.0038	1.5	0.020	0.26	0.0036
1,1-Dichloroethene		0.012	ND	0.0031	ND	0.012	ND	0.0029
Methylene Chloride	1.1	0.018	0.31	0.0053	3.5	0.018	1.0	0.0051
Trichlorotrifluoroethane	0.36	0.013	0.047	0.0016	0.36	0.012	0.048	0.0016
trans-1,2-Dichloroethene	0.015 J	0.010	0.0038 J	0.0026	ND	0.0099	ND	0.0025
1,1-Dichloroethane	ND	0.0086	ND	0.0021	ND	0.0082	ND	0.0020
Methyl tert-Butyl Ether	ND	0.013	ND	0.0036	ND	0.013	ND	0.0035
cis-1,2-Dichloroethene	0.13	0.013	0.034	0.0033	0.034	0.012	0.0086	0.0031
Chloroform	0.23	0.025	0.046	0.0052	0.12 J	0.024	0.024 J	0.0050
1,2-Dichloroethane	0.095	0.012	0.024	0.0029	0.13	0.011	0.032	0.0028
1,1,1-Trichloroethane	0.014 J	0.0083	0.0026 J	0.0015	0.017 J	0.0080	0.0031 J	0.0015
Benzene	1.4	0.028	0.44	0.0088	2.2	0.027	0.67	0.0085
Carbon Tetrachloride	0.43	0.017	0.069	0.0027	0.41	0.016	0.066	0.0026
1,2-Dichloropropane	0.029 J	0.010	0.0063 J	0.0022	0.023 J	0.0099	0.0050 J	0.0021
Bromodichloromethane	ND	0.0097	ND	0.0015	ND	0.0093	ND	0.0014
Trichloroethene	0.18	0.012	0.033	0.0022	0.058	0.011	0.011	0.0021
1,4-Dioxane	0.084 J	0.01	0.023 J	0.0033	0.016 J	0.011	0.0044 J	0.0032
cis-1,3-Dichloropropene	ND	0.0087	ND	0.0019	ND	0.0084	ND	0.0018
trans-1,3-Dichloropropene	ND	0.0078	ND	0.0017	ND	0.0074	ND	0.0016
1,1,2-Trichloroethane	ND	0.011	ND	0.0020	ND	0.011	ND	0.0020
Toluene	5.5	0.016	1.5	0.0041	9.7	0.015	2.6	0.0039
Dibromochloromethane	0.022 J	0.012	0.0025 J	0.0015	ND	0.012	ND	0.0014
1,2-Dibromoethane	ND	0.011	ND	0.0015	ND	0.011	ND	0.0014
Tetrachloroethene	2.2	0.012	0.33	0.0017	1.6	0.011	0.23	0.0016
Chlorobenzene	0.015 J	0.013	0.0033 J	0.0028	0.014 J	0.012	0.0031 J	0.0027
Ethylbenzene	0.62	0.014	0.14	0.0032	1.0	0.013	0.24	0.0030
m,p-Xylenes	2.2	0.027	0.51	0.0062	3.9	0.026	0.90	0.0059
Styrene	0.76	0.010	0.18	0.0025	0.51	0.010	0.12	0.0023
o-Xylene	0.93	0.013	0.21	0.0029	1.6	0.012	0.38	0.0028
1,1,2,2-Tetrachloroethane	ND	0.010	ND	0.0015	ND	0.0097	ND	0.0014

# OTHER ANALYTES WORK TABLE

**PROJECT: Sweet Kleen Laundry Site**

**SAMPLING DATES: February 14 to 15, 2018**

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Indoor Air				Indoor Air							
	P005-IA004-180214-01 P1800714-010 AC01844		P005-IA005-180214-01 P1800714-011 AS01294									
	1.00 L		1.00 L									
	1.41		1.35									
TO-15 VOCs	Result	MDL	Result	MDL	Result	MDL	Result	MDL				
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv				
1,3,5-Trimethylbenzene	0.27	0.010	0.055	0.0021	0.34	0.0099	0.070	0.0020				
1,2,4-Trimethylbenzene	0.91	0.012	0.19	0.0024	1.2	0.011	0.25	0.0023				
1,3-Dichlorobenzene	ND	0.012	ND	0.0020	ND	0.011	ND	0.0019				
1,4-Dichlorobenzene	<b>0.029 J</b>	0.011	<b>0.0048 J</b>	0.0019	<b>0.017 J</b>	0.011	<b>0.0027 J</b>	0.0018				
1,2-Dichlorobenzene	ND	0.012	ND	0.0019	ND	0.011	ND	0.0019				
1,2-Dibromo-3-chloropropane	ND	0.013	ND	0.0014	ND	0.013	ND	0.0013				
1,2,4-Trichlorobenzene	ND	0.018	ND	0.0025	0.23	0.018	0.031	0.0024				
Naphthalene	0.29	0.023	0.055	0.0043	0.61	0.022	0.12	0.0041				
Hexachlorobutadiene	ND	0.013	ND	0.0012	ND	0.012	ND	0.0012				

MDL - Method Detection Limit

ND - non-detected compound

J - estimated value

B - Analyte detected in both the sample and associated method blank.

**Bold result**-detected value

# OTHER ANALYTES WORK TABLE

**PROJECT: Sweet Kleen Laundry Site**

**SAMPLING DATES: February 14 to 15, 2018**

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Ambient Air				Indoor Air			
	P005-IA006-180214-01		P1800714-012		P005-IA001-180214-01		P1800714-014	
	AS01321		1.00 L		AS01292		1.00 L	
	1.00 L		1.40		1.00 L		1.38	
	Result	MDL	Result	MDL	Result	MDL	Result	MDL
TO-15 VOCs	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv
Dichlorodifluoromethane (CFC 12)	2.1	0.024	0.42	0.0048	2.1	0.023	0.43	0.0047
Chloromethane	0.40	0.027	0.20	0.013	0.39	0.026	0.19	0.013
Vinyl Chloride	ND	0.011	ND	0.0042	0.19	0.010	0.076	0.0041
1,3-Butadiene	0.042 J	0.020	0.019 J	0.0089	0.12	0.019	0.056	0.0087
Bromomethane	0.026 J	0.013	0.0067 J	0.0034	0.041	0.013	0.011	0.0033
Chloroethane	0.013 J	0.012	0.0050 J	0.0045	0.028 J	0.012	0.011 J	0.0044
Acrolein	0.67	0.055	0.29	0.024	0.40	0.054	0.17	0.023
Acetone	22 B	0.078	9.1 B	0.033	26 B	0.077	11 B	0.033
Trichlorofluoromethane	2.0	0.021	0.35	0.0037	1.5	0.021	0.27	0.0037
1,1-Dichloroethene	ND	0.012	ND	0.0030	ND	0.012	ND	0.0030
Methylene Chloride	0.83	0.018	0.24	0.0052	2.3	0.018	0.66	0.0052
Trichlorotrifluoroethane	0.37	0.012	0.049	0.0016	0.36	0.012	0.047	0.0016
trans-1,2-Dichloroethene	ND	0.010	ND	0.0026	0.062	0.010	0.016	0.0025
1,1-Dichloroethane	ND	0.0085	ND	0.0021	0.035	0.0084	0.0085	0.0021
Methyl tert-Butyl Ether	ND	0.013	ND	0.0036	0.18	0.013	0.049	0.0036
cis-1,2-Dichloroethene	0.067	0.013	0.017	0.0032	1.2	0.013	0.31	0.0032
Chloroform	0.21	0.025	0.043	0.0052	0.16	0.025	0.033	0.0051
1,2-Dichloroethane	0.089	0.012	0.022	0.0029	0.19	0.012	0.048	0.0029
1,1,1-Trichloroethane	0.013 J	0.0083	0.0025 J	0.0015	0.022 J	0.0081	0.0039 J	0.0015
Benzene	1.1	0.028	0.33	0.0088	1.5	0.028	0.47	0.0086
Carbon Tetrachloride	0.42	0.017	0.067	0.0027	0.48	0.017	0.076	0.0026
1,2-Dichloropropane	0.027 J	0.010	0.0058 J	0.0022	0.022 J	0.010	0.0047 J	0.0022
Bromodichloromethane	ND	0.0097	ND	0.0014	ND	0.0095	ND	0.0014
Trichloroethene	0.10	0.012	0.019	0.0022	0.57	0.012	0.11	0.0022
1,4-Dioxane	0.016 J	0.012	0.0044 J	0.0033	0.21	0.013	0.058	0.0036
cis-1,3-Dichloropropene	ND	0.0087	ND	0.0019	ND	0.0094	ND	0.0021
trans-1,3-Dichloropropene	ND	0.0077	ND	0.0017	ND	0.0084	ND	0.0018
1,1,2-Trichloroethane	ND	0.011	ND	0.0020	ND	0.012	ND	0.0022
Toluene	4.2	0.015	1.1	0.0041	4.3	0.017	1.1	0.0044
Dibromochloromethane	0.018 J	0.012	0.0021 J	0.0014	0.015 J	0.013	0.0017 J	0.0016
1,2-Dibromoethane	ND	0.011	ND	0.0014	ND	0.012	ND	0.0016
Tetrachloroethene	1.6	0.011	0.23	0.0017	4.2	0.012	0.62	0.0018
Chlorobenzene	0.014 J	0.013	0.0030 J	0.0028	0.013 J	0.014	0.0028 J	0.0030
Ethylbenzene	0.47	0.014	0.11	0.0031	0.57	0.015	0.13	0.0034
m,p-Xylenes	1.6	0.027	0.37	0.0061	2.2	0.029	0.52	0.0067
Styrene	0.51	0.010	0.12	0.0024	0.33	0.011	0.077	0.0026
o-Xylene	0.68	0.012	0.16	0.0029	1.0	0.014	0.24	0.0031
1,1,2,2-Tetrachloroethane	ND	0.010	ND	0.0015	ND	0.011	ND	0.0016

# OTHER ANALYTES WORK TABLE

**PROJECT:** Sweet Kleen Laundry Site

**SAMPLING DATES:** February 14 to 15, 2018

Matrix: Client ID#: Lab ID#: Canister ID: Volume Analyzed: Dilution Factor	Ambient Air				Indoor Air							
	P005-IA006-180214-01		P005-IA001-180214-01									
	P1800714-012		P1800714-014									
	AS01321		AS01292									
	1.00 L		1.00 L									
1.40		1.38										
TO-15 VOCs	Result	MDL	Result	MDL	Result	MDL	Result	MDL				
	µg/m3	µg/m3	ppbv	ppbv	µg/m3	µg/m3	ppbv	ppbv				
1,3,5-Trimethylbenzene	<b>0.18</b>	0.010	0.037	0.0021	<b>0.22</b>	0.011	<b>0.045</b>	0.0023				
1,2,4-Trimethylbenzene	<b>0.63</b>	0.012	<b>0.13</b>	0.0024	<b>0.77</b>	0.013	<b>0.16</b>	0.0026				
1,3-Dichlorobenzene	ND	0.012	ND	0.0020	ND	0.013	ND	0.0021				
1,4-Dichlorobenzene	<b>0.022 J</b>	0.011	<b>0.0036 J</b>	0.0019	<b>0.019 J</b>	0.012	<b>0.0032 J</b>	0.0020				
1,2-Dichlorobenzene	ND	0.012	ND	0.0019	ND	0.013	ND	0.0021				
1,2-Dibromo-3-chloropropane	ND	0.013	ND	0.0014	ND	0.014	ND	0.0015				
1,2,4-Trichlorobenzene	<b>0.032 J</b>	0.018	<b>0.0043 J</b>	0.0025	<b>0.055 J</b>	0.020	<b>0.0074 J</b>	0.0027				
Naphthalene	<b>0.36</b>	0.022	<b>0.068</b>	0.0043	<b>0.42</b>	0.024	<b>0.081</b>	0.0046				
Hexachlorobutadiene	ND	0.013	ND	0.0012	ND	0.014	ND	0.0013				

MDL - Method Detection Limit

ND - non-detected compound

J - estimated value

B - Analyte detected in both the sample and associated method blank.

**Bold result**-detected value

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P001-AA001-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-001

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Summa Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AC01890

Initial Pressure (psig): -1.56      Final Pressure (psig): 3.71

Container Dilution Factor: 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.070	0.024	0.44	0.014	0.0048	
74-87-3	Chloromethane	0.46	0.070	0.027	0.22	0.034	0.013	
75-01-4	Vinyl Chloride	ND	0.035	0.011	ND	0.014	0.0042	
106-99-0	1,3-Butadiene	ND	0.070	0.020	ND	0.032	0.0089	
74-83-9	Bromomethane	0.024	0.035	0.013	0.0062	0.0090	0.0034	J
75-00-3	Chloroethane	ND	0.035	0.012	ND	0.013	0.0045	
107-02-8	Acrolein	0.15	0.28	0.055	0.065	0.12	0.024	J
67-64-1	Acetone	3.9-3.5U	3.5	0.078	1.6-1.5U	1.5	0.033	B
75-69-4	Trichlorofluoromethane	1.0	0.070	0.021	0.19	0.012	0.0037	
75-35-4	1,1-Dichloroethene	ND	0.035	0.012	ND	0.0088	0.0030	
75-09-2	Methylene Chloride	0.30	0.14	0.018	0.086	0.040	0.0052	
76-13-1	Trichlorotrifluoroethane	0.35	0.035	0.012	0.045	0.0046	0.0016	
156-60-5	trans-1,2-Dichloroethene	0.013	0.035	0.010	0.0034	0.0088	0.0026	J
75-34-3	1,1-Dichloroethane	ND	0.035	0.0085	ND	0.0087	0.0021	
1634-04-4	Methyl tert-Butyl Ether	ND	0.035	0.013	ND	0.0097	0.0036	
156-59-2	cis-1,2-Dichloroethene	0.093	0.035	0.013	0.023	0.0088	0.0032	
67-66-3	Chloroform	0.088	0.14	0.025	0.018	0.029	0.0052	J
107-06-2	1,2-Dichloroethane	0.065	0.035	0.012	0.016	0.0087	0.0029	
71-55-6	1,1,1-Trichloroethane	0.012	0.035	0.0083	0.0022	0.0064	0.0015	J
71-43-2	Benzene	0.58	0.11	0.028	0.18	0.033	0.0088	
56-23-5	Carbon Tetrachloride	0.40	0.035	0.017	0.064	0.0056	0.0027	
78-87-5	1,2-Dichloropropane	0.019	0.035	0.010	0.0042	0.0076	0.0022	J
75-27-4	Bromodichloromethane	ND	0.035	0.0097	ND	0.0052	0.0014	
79-01-6	Trichloroethene	0.048	0.035	0.012	0.0089	0.0065	0.0022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

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# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P001-AA001-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-001

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Summa Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AC01890

Initial Pressure (psig): -1.56      Final Pressure (psig): 3.71

Container Dilution Factor: 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	0.012	0.14	0.012	0.0033	0.039	0.0033	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.035	0.0087	ND	0.0077	0.0019	
10061-02-6	trans-1,3-Dichloropropene	ND	0.035	0.0077	ND	0.0077	0.0017	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.011	ND	0.026	0.0020	
108-88-3	Toluene	0.65	0.14	0.015	0.17	0.037	0.0041	
124-48-1	Dibromochloromethane	ND	0.035	0.012	ND	0.0041	0.0014	
106-93-4	1,2-Dibromoethane	ND	0.035	0.011	ND	0.0046	0.0014	
127-18-4	Tetrachloroethene	0.49	0.035	0.011	0.072	0.0052	0.0017	
108-90-7	Chlorobenzene	ND	0.14	0.013	ND	0.030	0.0028	
100-41-4	Ethylbenzene	0.098	0.14	0.014	0.023	0.032	0.0031	J
179601-23-1	m,p-Xylenes	0.25	0.14	0.027	0.058	0.032	0.0061	
100-42-5	Styrene	0.023	0.14	0.010	0.0053	0.033	0.0024	J
95-47-6	o-Xylene	0.11	0.14	0.012	0.026	0.032	0.0029	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.035	0.010	ND	0.0051	0.0015	
108-67-8	1,3,5-Trimethylbenzene	0.029	0.14	0.010	0.0059	0.028	0.0021	J
95-63-6	1,2,4-Trimethylbenzene	0.10	0.14	0.012	0.021	0.028	0.0024	J
541-73-1	1,3-Dichlorobenzene	ND	0.035	0.012	ND	0.0058	0.0020	
106-46-7	1,4-Dichlorobenzene	ND	0.035	0.011	ND	0.0058	0.0019	
95-50-1	1,2-Dichlorobenzene	ND	0.035	0.012	ND	0.0058	0.0019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.14	0.013	ND	0.014	0.0014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.070	0.018	ND	0.0094	0.0025	
91-20-3	Naphthalene	ND	0.14	0.022	ND	0.027	0.0043	
87-68-3	Hexachlorobutadiene	ND	0.14	0.013	ND	0.013	0.0012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-IA001-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
ALS Sample ID: P1800714-002

Test Code: EPA TO-15 SIM Date Collected: 2/15/18  
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19 Date Received: 2/16/18  
Analyst: Wida Ang Date Analyzed: 2/16/18  
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)  
Test Notes:  
Container ID: AC02147

Initial Pressure (psig): 0.21 Final Pressure (psig): 3.59

Container Dilution Factor: 1.23

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.062	0.021	0.58	0.012	0.0042	
74-87-3	Chloromethane	0.43	0.062	0.023	0.21	0.030	0.011	
75-01-4	Vinyl Chloride	ND	0.031	0.0093	ND	0.012	0.0037	
106-99-0	1,3-Butadiene	ND	0.062	0.017	ND	0.028	0.0078	
74-83-9	Bromomethane	0.023	0.031	0.011	0.0060	0.0079	0.0029	J
75-00-3	Chloroethane	0.014	0.031	0.010	0.0053	0.012	0.0040	J
107-02-8	Acrolein	0.24	0.25	0.048	0.11	0.11	0.021	J
67-64-1	Acetone	6.4 U	3.1	0.069	2.7 U	1.3	0.029	B
75-69-4	Trichlorofluoromethane	1.0	0.062	0.018	0.18	0.011	0.0033	
75-35-4	1,1-Dichloroethene	ND	0.031	0.011	ND	0.0078	0.0027	
75-09-2	Methylene Chloride	0.29	0.12	0.016	0.084	0.035	0.0046	
76-13-1	Trichlorotrifluoroethane	0.36	0.031	0.011	0.047	0.0040	0.0014	
156-60-5	trans-1,2-Dichloroethene	ND	0.031	0.0090	ND	0.0078	0.0023	
75-34-3	1,1-Dichloroethane	ND	0.031	0.0075	ND	0.0076	0.0019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.031	0.011	ND	0.0085	0.0032	
156-59-2	cis-1,2-Dichloroethene	0.11	0.031	0.011	0.027	0.0078	0.0029	
67-66-3	Chloroform	0.36	0.12	0.022	0.074	0.025	0.0045	
107-06-2	1,2-Dichloroethane	0.066	0.031	0.010	0.016	0.0076	0.0026	
71-55-6	1,1,1-Trichloroethane	0.013	0.031	0.0073	0.0023	0.0056	0.0013	J
71-43-2	Benzene	0.61	0.092	0.025	0.19	0.029	0.0077	
56-23-5	Carbon Tetrachloride	0.41	0.031	0.015	0.065	0.0049	0.0023	
78-87-5	1,2-Dichloropropane	0.019	0.031	0.0090	0.0042	0.0067	0.0019	J
75-27-4	Bromodichloromethane	0.16	0.031	0.0085	0.023	0.0046	0.0013	
79-01-6	Trichloroethene	0.16	0.031	0.010	0.029	0.0057	0.0019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

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# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-IA001-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-002

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Summa Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AC02147

Initial Pressure (psig): 0.21      Final Pressure (psig): 3.59

Container Dilution Factor: 1.23

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	0.14	0.12	0.010	0.038	0.034	0.0029	
10061-01-5	cis-1,3-Dichloropropene	ND	0.031	0.0076	ND	0.0068	0.0017	
10061-02-6	trans-1,3-Dichloropropene	ND	0.031	0.0068	ND	0.0068	0.0015	
79-00-5	1,1,2-Trichloroethane	ND	0.12	0.0097	ND	0.023	0.0018	
108-88-3	Toluene	0.65	0.12	0.014	0.17	0.033	0.0036	
124-48-1	Dibromochloromethane	0.061	0.031	0.011	0.0072	0.0036	0.0013	
106-93-4	1,2-Dibromoethane	ND	0.031	0.0097	ND	0.0040	0.0013	
127-18-4	Tetrachloroethene	7.5	0.031	0.010	1.1	0.0045	0.0015	
108-90-7	Chlorobenzene	ND	0.12	0.011	ND	0.027	0.0025	
100-41-4	Ethylbenzene	0.11	0.12	0.012	0.026	0.028	0.0027	J
179601-23-1	m,p-Xylenes	0.31	0.12	0.023	0.071	0.028	0.0054	
100-42-5	Styrene	0.047	0.12	0.0091	0.011	0.029	0.0021	J
95-47-6	o-Xylene	0.14	0.12	0.011	0.032	0.028	0.0025	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.031	0.0089	ND	0.0045	0.0013	
108-67-8	1,3,5-Trimethylbenzene	0.081	0.12	0.0090	0.016	0.025	0.0018	J
95-63-6	1,2,4-Trimethylbenzene	0.27	0.12	0.010	0.055	0.025	0.0021	
541-73-1	1,3-Dichlorobenzene	ND	0.031	0.010	ND	0.0051	0.0017	
106-46-7	1,4-Dichlorobenzene	0.013	0.031	0.010	0.0021	0.0051	0.0017	J
95-50-1	1,2-Dichlorobenzene	ND	0.031	0.010	ND	0.0051	0.0017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.12	0.012	ND	0.013	0.0012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.062	0.016	ND	0.0083	0.0022	
91-20-3	Naphthalene	0.23	0.12	0.020	0.043	0.023	0.0038	
87-68-3	Hexachlorobutadiene	ND	0.12	0.011	ND	0.012	0.0011	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: Weston Solutions, Inc.  
 Client Sample ID: P002-IA002-180214-01  
 Client Project ID: RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-003

Test Code: EPA TO-15 SIM Date Collected: 2/15/18  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19 Date Received: 2/16/18  
 Analyst: Wida Ang Date Analyzed: 2/16/18  
 Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)  
 Test Notes:  
 Container ID: SC02184

Initial Pressure (psig): -0.31 Final Pressure (psig): 3.62

Container Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	3.7	0.064	0.022	0.75	0.013	0.0044	
74-87-3	Chloromethane	0.44	0.064	0.024	0.21	0.031	0.012	
75-01-4	Vinyl Chloride	ND	0.032	0.0097	ND	0.012	0.0038	
106-99-0	1,3-Butadiene	ND	0.064	0.018	ND	0.029	0.0080	
74-83-9	Bromomethane	0.022	0.032	0.012	0.0058	0.0082	0.0030	J
75-00-3	Chloroethane	0.016	0.032	0.011	0.0061	0.012	0.0041	J
107-02-8	Acrolein	0.10	0.25	0.050	0.044	0.11	0.022	J
67-64-1	Acetone	-6.0-3.2	3.2	0.071	-2.5-1.3	1.3	0.030	B
75-69-4	Trichlorofluoromethane	1.0	0.064	0.019	0.18	0.011	0.0034	
75-35-4	1,1-Dichloroethene	ND	0.032	0.011	ND	0.0080	0.0028	
75-09-2	Methylene Chloride	0.29	0.13	0.017	0.083	0.037	0.0048	
76-13-1	Trichlorotrifluoroethane	0.36	0.032	0.011	0.047	0.0041	0.0015	
156-60-5	trans-1,2-Dichloroethene	ND	0.032	0.0093	ND	0.0080	0.0023	
75-34-3	1,1-Dichloroethane	ND	0.032	0.0077	ND	0.0078	0.0019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.032	0.012	ND	0.0088	0.0033	
156-59-2	cis-1,2-Dichloroethene	0.028	0.032	0.012	0.0071	0.0080	0.0029	J
67-66-3	Chloroform	0.14	0.13	0.023	0.028	0.026	0.0047	
107-06-2	1,2-Dichloroethane	0.063	0.032	0.011	0.016	0.0078	0.0026	
71-55-6	1,1,1-Trichloroethane	0.011	0.032	0.0075	0.0021	0.0058	0.0014	J
71-43-2	Benzene	0.60	0.095	0.025	0.19	0.030	0.0080	
56-23-5	Carbon Tetrachloride	0.40	0.032	0.015	0.063	0.0050	0.0024	
78-87-5	1,2-Dichloropropane	0.019	0.032	0.0093	0.0040	0.0069	0.0020	J
75-27-4	Bromodichloromethane	0.029	0.032	0.0088	0.0044	0.0047	0.0013	J
79-01-6	Trichloroethene	0.084	0.032	0.011	0.016	0.0059	0.0020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

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# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-IA002-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-003

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Summa Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** SC02184

Initial Pressure (psig): -0.31      Final Pressure (psig): 3.62

Container Dilution Factor: 1.27

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	0.059	0.13	0.011	0.016	0.035	0.0030	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.032	0.0079	ND	0.0070	0.0017	
10061-02-6	trans-1,3-Dichloropropene	ND	0.032	0.0070	ND	0.0070	0.0015	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.010	ND	0.023	0.0018	
108-88-3	Toluene	0.65	0.13	0.014	0.17	0.034	0.0037	
124-48-1	Dibromochloromethane	ND	0.032	0.011	ND	0.0037	0.0013	
106-93-4	1,2-Dibromoethane	ND	0.032	0.010	ND	0.0041	0.0013	
127-18-4	Tetrachloroethene	4.3	0.032	0.010	0.64	0.0047	0.0015	
108-90-7	Chlorobenzene	ND	0.13	0.012	ND	0.028	0.0025	
100-41-4	Ethylbenzene	0.11	0.13	0.012	0.026	0.029	0.0028	J
179601-23-1	m,p-Xylenes	0.29	0.13	0.024	0.068	0.029	0.0056	
100-42-5	Styrene	0.076	0.13	0.0094	0.018	0.030	0.0022	J
95-47-6	o-Xylene	0.13	0.13	0.011	0.031	0.029	0.0026	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.032	0.0091	ND	0.0046	0.0013	
108-67-8	1,3,5-Trimethylbenzene	0.059	0.13	0.0093	0.012	0.026	0.0019	J
95-63-6	1,2,4-Trimethylbenzene	0.20	0.13	0.011	0.040	0.026	0.0021	
541-73-1	1,3-Dichlorobenzene	ND	0.032	0.011	ND	0.0053	0.0018	
106-46-7	1,4-Dichlorobenzene	0.012	0.032	0.010	0.0020	0.0053	0.0017	J
95-50-1	1,2-Dichlorobenzene	ND	0.032	0.011	ND	0.0053	0.0018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.13	0.012	ND	0.013	0.0012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.064	0.017	ND	0.0086	0.0022	
91-20-3	Naphthalene	0.11	0.13	0.020	0.022	0.024	0.0039	J
87-68-3	Hexachlorobutadiene	ND	0.13	0.012	ND	0.012	0.0011	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-IA003-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-004

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Silonite Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AS01293

Initial Pressure (psig): 0.58      Final Pressure (psig): 3.61

Container Dilution Factor: 1.20

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	8.9	0.060	0.020	1.8	0.012	0.0041	
74-87-3	Chloromethane	0.22	0.060	0.023	0.11	0.029	0.011	
75-01-4	Vinyl Chloride	ND	0.030	0.0091	ND	0.012	0.0036	
106-99-0	1,3-Butadiene	ND	0.060	0.017	ND	0.027	0.0076	
74-83-9	Bromomethane	0.032	0.030	0.011	0.0083	0.0077	0.0029	
75-00-3	Chloroethane	0.028	0.030	0.010	0.010	0.011	0.0039	J
107-02-8	Acrolein	0.22	0.24	0.047	0.094	0.10	0.020	J
67-64-1	Acetone	5.4 <i>-3.0U</i>	3.0	0.067	2.2 <i>-1.3U</i>	1.3	0.028	B
75-69-4	Trichlorofluoromethane	1.1	0.060	0.018	0.19	0.011	0.0032	
75-35-4	1,1-Dichloroethene	ND	0.030	0.010	ND	0.0076	0.0026	
75-09-2	Methylene Chloride	0.30	0.12	0.016	0.088	0.035	0.0045	
76-13-1	Trichlorotrifluoroethane	0.35	0.030	0.011	0.046	0.0039	0.0014	
156-60-5	trans-1,2-Dichloroethene	ND	0.030	0.0088	ND	0.0076	0.0022	
75-34-3	1,1-Dichloroethane	ND	0.030	0.0073	ND	0.0074	0.0018	
1634-04-4	Methyl tert-Butyl Ether	ND	0.030	0.011	ND	0.0083	0.0031	
156-59-2	cis-1,2-Dichloroethene	0.018	0.030	0.011	0.0046	0.0076	0.0028	J
67-66-3	Chloroform	0.11	0.12	0.022	0.022	0.025	0.0044	J
107-06-2	1,2-Dichloroethane	0.065	0.030	0.010	0.016	0.0074	0.0025	
71-55-6	1,1,1-Trichloroethane	0.011	0.030	0.0071	0.0021	0.0055	0.0013	J
71-43-2	Benzene	0.70	0.090	0.024	0.22	0.028	0.0075	
56-23-5	Carbon Tetrachloride	0.40	0.030	0.014	0.064	0.0048	0.0023	
78-87-5	1,2-Dichloropropane	0.020	0.030	0.0088	0.0043	0.0065	0.0019	J
75-27-4	Bromodichloromethane	0.022	0.030	0.0083	0.0033	0.0045	0.0012	J
79-01-6	Trichloroethene	0.053	0.030	0.010	0.0099	0.0056	0.0019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

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# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P002-IA003-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-004

Test Code:	EPA TO-15 SIM	Date Collected:	2/15/18
Instrument ID:	Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19	Date Received:	2/16/18
Analyst:	Wida Ang	Date Analyzed:	2/16/18
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:			
Container ID:	AS01293		

Initial Pressure (psig): 0.58      Final Pressure (psig): 3.61

Container Dilution Factor: 1.20

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	0.023	0.12	0.010	0.0064	0.033	0.0028	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.030	0.0074	ND	0.0066	0.0016	
10061-02-6	trans-1,3-Dichloropropene	ND	0.030	0.0066	ND	0.0066	0.0015	
79-00-5	1,1,2-Trichloroethane	ND	0.12	0.0095	ND	0.022	0.0017	
108-88-3	Toluene	0.79	0.12	0.013	0.21	0.032	0.0035	
124-48-1	Dibromochloromethane	0.012	0.030	0.011	0.0014	0.0035	0.0012	J
106-93-4	1,2-Dibromoethane	ND	0.030	0.0095	ND	0.0039	0.0012	
127-18-4	Tetrachloroethene	2.2	0.030	0.0098	0.32	0.0044	0.0015	
108-90-7	Chlorobenzene	ND	0.12	0.011	ND	0.026	0.0024	
100-41-4	Ethylbenzene	0.13	0.12	0.012	0.029	0.028	0.0027	
179601-23-1	m,p-Xylenes	0.29	0.12	0.023	0.068	0.028	0.0053	
100-42-5	Styrene	0.046	0.12	0.0089	0.011	0.028	0.0021	J
95-47-6	o-Xylene	0.13	0.12	0.011	0.031	0.028	0.0025	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.030	0.0086	ND	0.0044	0.0013	
108-67-8	1,3,5-Trimethylbenzene	0.048	0.12	0.0088	0.0098	0.024	0.0018	J
95-63-6	1,2,4-Trimethylbenzene	0.17	0.12	0.010	0.034	0.024	0.0020	
541-73-1	1,3-Dichlorobenzene	ND	0.030	0.010	ND	0.0050	0.0017	
106-46-7	1,4-Dichlorobenzene	0.015	0.030	0.0097	0.0024	0.0050	0.0016	J
95-50-1	1,2-Dichlorobenzene	ND	0.030	0.010	ND	0.0050	0.0017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.12	0.011	ND	0.012	0.0012	
120-82-1	1,2,4-Trichlorobenzene	0.049	0.060	0.016	0.0066	0.0081	0.0021	J
91-20-3	Naphthalene	0.33	0.12	0.019	0.064	0.023	0.0037	
87-68-3	Hexachlorobutadiene	ND	0.12	0.011	ND	0.011	0.0010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA002-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-008

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Silonite Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AS01322

Initial Pressure (psig): -2.05      Final Pressure (psig): 3.73

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.073	0.025	0.43	0.015	0.0050	
74-87-3	Chloromethane	0.45	0.073	0.028	0.22	0.035	0.013	
75-01-4	Vinyl Chloride		ND	0.037	0.011		ND	0.014 0.0043
106-99-0	1,3-Butadiene	0.13		0.073	0.020	0.061	0.033	0.0092
74-83-9	Bromomethane	0.027		0.037	0.014	0.0070	0.0094	0.0035 J
75-00-3	Chloroethane	0.018		0.037	0.012	0.0067	0.014	0.0047 J
107-02-8	Acrolein	0.69		0.29	0.057	0.30	0.13	0.025
67-64-1	Acetone	80		3.7	0.082	34	1.5	0.034 B
75-69-4	Trichlorofluoromethane	1.5		0.073	0.022	0.28	0.013	0.0039
75-35-4	1,1-Dichloroethene		ND	0.037	0.013		ND	0.0092 0.0032
75-09-2	Methylene Chloride	2.6		0.15	0.019	0.74	0.042	0.0055
76-13-1	Trichlorotrifluoroethane	0.36		0.037	0.013	0.047	0.0048	0.0017
156-60-5	trans-1,2-Dichloroethene		ND	0.037	0.011		ND	0.0092 0.0027
75-34-3	1,1-Dichloroethane		ND	0.037	0.0089		ND	0.0090 0.0022
1634-04-4	Methyl tert-Butyl Ether		ND	0.037	0.014		ND	0.010 0.0038
156-59-2	cis-1,2-Dichloroethene	0.059		0.037	0.013	0.015	0.0092	0.0034
67-66-3	Chloroform	0.12		0.15	0.026	0.026	0.030	0.0054 J
107-06-2	1,2-Dichloroethane	0.17		0.037	0.012	0.041	0.0090	0.0030
71-55-6	1,1,1-Trichloroethane	0.022		0.037	0.0086	0.0040	0.0067	0.0016 J
71-43-2	Benzene	2.1		0.11	0.029	0.67	0.034	0.0091
56-23-5	Carbon Tetrachloride	0.41		0.037	0.018	0.065	0.0058	0.0028
78-87-5	1,2-Dichloropropane	0.023		0.037	0.011	0.0050	0.0079	0.0023 J
75-27-4	Bromodichloromethane		ND	0.037	0.010		ND	0.0055 0.0015
79-01-6	Trichloroethene	0.087		0.037	0.012	0.016	0.0068	0.0023

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA002-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-008

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Silonite Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AS01322

Initial Pressure (psig): -2.05      Final Pressure (psig): 3.73

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	ND	0.15	0.012	ND	0.041	0.0034	
10061-01-5	cis-1,3-Dichloropropene	ND	0.037	0.0091	ND	0.0080	0.0020	
10061-02-6	trans-1,3-Dichloropropene	ND	0.037	0.0080	ND	0.0080	0.0018	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.012	ND	0.027	0.0021	
108-88-3	Toluene	12	0.15	0.016	3.1	0.039	0.0043	
124-48-1	Dibromochloromethane	ND	0.037	0.013	ND	0.0043	0.0015	
106-93-4	1,2-Dibromoethane	ND	0.037	0.012	ND	0.0048	0.0015	
127-18-4	Tetrachloroethylene	2.8	0.037	0.012	0.41	0.0054	0.0018	
108-90-7	Chlorobenzene	0.021	0.15	0.013	0.0046	0.032	0.0029	J
100-41-4	Ethylbenzene	1.3	0.15	0.014	0.29	0.034	0.0033	
179601-23-1	m,p-Xylenes	5.1	0.15	0.028	1.2	0.034	0.0064	
100-42-5	Styrene	0.67	0.15	0.011	0.16	0.034	0.0025	
95-47-6	o-Xylene	2.3	0.15	0.013	0.52	0.034	0.0030	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.037	0.011	ND	0.0053	0.0015	
108-67-8	1,3,5-Trimethylbenzene	0.38	0.15	0.011	0.078	0.030	0.0022	
95-63-6	1,2,4-Trimethylbenzene	1.3	0.15	0.012	0.27	0.030	0.0025	
541-73-1	1,3-Dichlorobenzene	ND	0.037	0.012	ND	0.0061	0.0021	
106-46-7	1,4-Dichlorobenzene	0.017	0.037	0.012	0.0029	0.0061	0.0020	J
95-50-1	1,2-Dichlorobenzene	ND	0.037	0.012	ND	0.0061	0.0020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.15	0.014	ND	0.015	0.0014	
120-82-1	1,2,4-Trichlorobenzene	0.022	0.073	0.019	0.0029	0.0098	0.0026	J
91-20-3	Naphthalene	0.69	0.15	0.023	0.13	0.028	0.0045	
87-68-3	Hexachlorobutadiene	ND	0.15	0.013	ND	0.014	0.0013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA003-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-009

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Silonite Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AS01058

Initial Pressure (psig): -0.81      Final Pressure (psig): 3.77

Container Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.067	0.023	0.43	0.013	0.0046	
74-87-3	Chloromethane	0.47	0.067	0.025	0.23	0.032	0.012	
75-01-4	Vinyl Chloride	ND	0.033	0.010	ND	0.013	0.0040	
106-99-0	1,3-Butadiene	0.11	0.067	0.019	0.050	0.030	0.0084	
74-83-9	Bromomethane	0.024	0.033	0.012	0.0062	0.0086	0.0032	J
75-00-3	Chloroethane	0.032	0.033	0.011	0.012	0.013	0.0043	J
107-02-8	Acrolein	ND	0.27	0.052	ND	0.12	0.023	
67-64-1	Acetone	82	3.3	0.074	34	1.4	0.031	B
75-69-4	Trichlorofluoromethane	1.4	0.067	0.020	0.25	0.012	0.0036	
75-35-4	1,1-Dichloroethene	ND	0.033	0.011	ND	0.0084	0.0029	
75-09-2	Methylene Chloride	1.8	0.13	0.017	0.52	0.038	0.0050	
76-13-1	Trichlorotrifluoroethane	0.36	0.033	0.012	0.047	0.0043	0.0015	
156-60-5	trans-1,2-Dichloroethene	0.016	0.033	0.0097	0.0041	0.0084	0.0024	J
75-34-3	1,1-Dichloroethane	ND	0.033	0.0081	ND	0.0082	0.0020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.033	0.012	ND	0.0092	0.0034	
156-59-2	cis-1,2-Dichloroethene	0.11	0.033	0.012	0.029	0.0084	0.0031	
67-66-3	Chloroform	0.13	0.13	0.024	0.027	0.027	0.0049	J
107-06-2	1,2-Dichloroethane	0.27	0.033	0.011	0.067	0.0082	0.0028	
71-55-6	1,1,1-Trichloroethane	0.020	0.033	0.0078	0.0036	0.0061	0.0014	J
71-43-2	Benzene	1.7	0.10	0.027	0.53	0.031	0.0083	
56-23-5	Carbon Tetrachloride	0.41	0.033	0.016	0.065	0.0053	0.0025	
78-87-5	1,2-Dichloropropane	0.022	0.033	0.0097	0.0048	0.0072	0.0021	J
75-27-4	Bromodichloromethane	ND	0.033	0.0092	ND	0.0050	0.0014	
79-01-6	Trichloroethene	0.15	0.033	0.011	0.028	0.0062	0.0021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA003-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-009

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Silonite Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AS01058

Initial Pressure (psig): -0.81      Final Pressure (psig): 3.77

Container Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	0.035	0.13	0.011	0.0096	0.037	0.0031	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.033	0.0082	ND	0.0073	0.0018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.033	0.0073	ND	0.0073	0.0016	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.011	ND	0.024	0.0019	
108-88-3	Toluene	11	0.13	0.015	3.0	0.035	0.0039	
124-48-1	Dibromochloromethane	ND	0.033	0.012	ND	0.0039	0.0014	
106-93-4	1,2-Dibromoethane	ND	0.033	0.011	ND	0.0043	0.0014	
127-18-4	Tetrachloroethene	3.3	0.033	0.011	0.48	0.0049	0.0016	
108-90-7	Chlorobenzene	0.016	0.13	0.012	0.0036	0.029	0.0027	J
100-41-4	Ethylbenzene	1.7	0.13	0.013	0.40	0.031	0.0030	
179601-23-1	m,p-Xylenes	7.9	0.13	0.025	1.8	0.031	0.0058	
100-42-5	Styrene	0.45	0.13	0.0098	0.11	0.031	0.0023	
95-47-6	o-Xylene	4.1	0.13	0.012	0.94	0.031	0.0027	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.033	0.0096	ND	0.0048	0.0014	
108-67-8	1,3,5-Trimethylbenzene	0.30	0.13	0.0097	0.062	0.027	0.0020	
95-63-6	1,2,4-Trimethylbenzene	1.1	0.13	0.011	0.22	0.027	0.0022	
541-73-1	1,3-Dichlorobenzene	ND	0.033	0.011	ND	0.0055	0.0019	
106-46-7	1,4-Dichlorobenzene	0.016	0.033	0.011	0.0027	0.0055	0.0018	J
95-50-1	1,2-Dichlorobenzene	ND	0.033	0.011	ND	0.0055	0.0018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.13	0.013	ND	0.014	0.0013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.067	0.017	ND	0.0090	0.0023	
91-20-3	Naphthalene	0.84	0.13	0.021	0.16	0.025	0.0041	
87-68-3	Hexachlorobutadiene	ND	0.13	0.012	ND	0.012	0.0011	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA004-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-010

Test Code:	EPA TO-15 SIM	Date Collected:	2/15/18
Instrument ID:	Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19	Date Received:	2/16/18
Analyst:	Wida Ang	Date Analyzed:	2/16/18
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:			
Container ID:	AC01844		

Initial Pressure (psig): -1.73      Final Pressure (psig): 3.54

Container Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.071	0.024	0.43	0.014	0.0048	
74-87-3	Chloromethane	0.41	0.071	0.027	0.20	0.034	0.013	
75-01-4	Vinyl Chloride		ND	0.035	0.011		0.014	0.0042
106-99-0	1,3-Butadiene	0.064		0.071	0.020	0.029	0.032	0.0089
74-83-9	Bromomethane	0.023		0.035	0.013	0.0059	0.0091	0.0034
75-00-3	Chloroethane	0.016		0.035	0.012	0.0060	0.013	0.0045
107-02-8	Acrolein		ND	0.28	0.055		0.12	0.024
67-64-1	Acetone	31		3.5	0.079	13	1.5	0.033
75-69-4	Trichlorofluoromethane	2.5		0.071	0.021	0.44	0.013	0.0038
75-35-4	1,1-Dichloroethene		ND	0.035	0.012		0.0089	0.0031
75-09-2	Methylene Chloride	1.1		0.14	0.018	0.31	0.041	0.0053
76-13-1	Trichlorotrifluoroethane	0.36		0.035	0.013	0.047	0.0046	0.0016
156-60-5	trans-1,2-Dichloroethene	0.015		0.035	0.010	0.0038	0.0089	0.0026
75-34-3	1,1-Dichloroethane		ND	0.035	0.0086		0.0087	0.0021
1634-04-4	Methyl tert-Butyl Ether		ND	0.035	0.013		0.0098	0.0036
156-59-2	cis-1,2-Dichloroethene	0.13		0.035	0.013	0.034	0.0089	0.0033
67-66-3	Chloroform	0.23		0.14	0.025	0.046	0.029	0.0052
107-06-2	1,2-Dichloroethane	0.095		0.035	0.012	0.024	0.0087	0.0029
71-55-6	1,1,1-Trichloroethane	0.014		0.035	0.0083	0.0026	0.0065	0.0015
71-43-2	Benzene	1.4		0.11	0.028	0.44	0.033	0.0088
56-23-5	Carbon Tetrachloride	0.43		0.035	0.017	0.069	0.0056	0.0027
78-87-5	1,2-Dichloropropane	0.029		0.035	0.010	0.0063	0.0076	0.0022
75-27-4	Bromodichloromethane		ND	0.035	0.0097		0.0053	0.0015
79-01-6	Trichloroethene	0.18		0.035	0.012	0.033	0.0066	0.0022

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA004-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-010

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Summa Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AC01844

Initial Pressure (psig): -1.73      Final Pressure (psig): 3.54

Container Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	0.084	0.14	0.012	0.023	0.039	0.0033	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.035	0.0087	ND	0.0078	0.0019	
10061-02-6	trans-1,3-Dichloropropene	ND	0.035	0.0078	ND	0.0078	0.0017	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.011	ND	0.026	0.0020	
108-88-3	Toluene	5.5	0.14	0.016	1.5	0.037	0.0041	
124-48-1	Dibromochloromethane	0.022	0.035	0.012	0.0025	0.0041	0.0015	J
106-93-4	1,2-Dibromoethane	ND	0.035	0.011	ND	0.0046	0.0015	
127-18-4	Tetrachloroethene	2.2	0.035	0.012	0.33	0.0052	0.0017	
108-90-7	Chlorobenzene	0.015	0.14	0.013	0.0033	0.031	0.0028	J
100-41-4	Ethylbenzene	0.62	0.14	0.014	0.14	0.032	0.0032	
179601-23-1	m,p-Xylenes	2.2	0.14	0.027	0.51	0.032	0.0062	
100-42-5	Styrene	0.76	0.14	0.010	0.18	0.033	0.0025	
95-47-6	o-Xylene	0.93	0.14	0.013	0.21	0.032	0.0029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.035	0.010	ND	0.0051	0.0015	
108-67-8	1,3,5-Trimethylbenzene	0.27	0.14	0.010	0.055	0.029	0.0021	
95-63-6	1,2,4-Trimethylbenzene	0.91	0.14	0.012	0.19	0.029	0.0024	
541-73-1	1,3-Dichlorobenzene	ND	0.035	0.012	ND	0.0059	0.0020	
106-46-7	1,4-Dichlorobenzene	0.029	0.035	0.011	0.0048	0.0059	0.0019	J
95-50-1	1,2-Dichlorobenzene	ND	0.035	0.012	ND	0.0059	0.0019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.14	0.013	ND	0.015	0.0014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.071	0.018	ND	0.0095	0.0025	
91-20-3	Naphthalene	0.29	0.14	0.023	0.055	0.027	0.0043	
87-68-3	Hexachlorobutadiene	ND	0.14	0.013	ND	0.013	0.0012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA005-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-011

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Silonite Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AS01294

Initial Pressure (psig): -1.19      Final Pressure (psig): 3.57

Container Dilution Factor: 1.35

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.068	0.023	0.44	0.014	0.0046	
74-87-3	Chloromethane	0.45	0.068	0.026	0.22	0.033	0.012	
75-01-4	Vinyl Chloride		ND	0.034	0.010		0.013	0.0040
106-99-0	1,3-Butadiene	0.12	0.068	0.019	0.056	0.031	0.0085	
74-83-9	Bromomethane	0.029	0.034	0.013	0.0075	0.0087	0.0032	J
75-00-3	Chloroethane	0.017	0.034	0.011	0.0063	0.013	0.0044	J
107-02-8	Acrolein	0.61	0.27	0.053	0.27	0.12	0.023	
67-64-1	Acetone	50	3.4	0.076	21	1.4	0.032	B
75-69-4	Trichlorofluoromethane	1.5	0.068	0.020	0.26	0.012	0.0036	
75-35-4	1,1-Dichloroethene		ND	0.034	0.012		0.0085	0.0029
75-09-2	Methylene Chloride	3.5	0.14	0.018	1.0	0.039	0.0051	
76-13-1	Trichlorotrifluoroethane	0.36	0.034	0.012	0.048	0.0044	0.0016	
156-60-5	trans-1,2-Dichloroethene		ND	0.034	0.0099		0.0085	0.0025
75-34-3	1,1-Dichloroethane		ND	0.034	0.0082		0.0083	0.0020
1634-04-4	Methyl tert-Butyl Ether		ND	0.034	0.013		0.0094	0.0035
156-59-2	cis-1,2-Dichloroethene	0.034	0.034	0.012	0.0086	0.0085	0.0031	
67-66-3	Chloroform	0.12	0.14	0.024	0.024	0.028	0.0050	J
107-06-2	1,2-Dichloroethane	0.13	0.034	0.011	0.032	0.0083	0.0028	
71-55-6	1,1,1-Trichloroethane	0.017	0.034	0.0080	0.0031	0.0062	0.0015	J
71-43-2	Benzene	2.2	0.10	0.027	0.67	0.032	0.0085	
56-23-5	Carbon Tetrachloride	0.41	0.034	0.016	0.066	0.0054	0.0026	
78-87-5	1,2-Dichloropropane	0.023	0.034	0.0099	0.0050	0.0073	0.0021	J
75-27-4	Bromodichloromethane		ND	0.034	0.0093		0.0050	0.0014
79-01-6	Trichloroethene	0.058	0.034	0.011	0.011	0.0063	0.0021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA005-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-011

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Silonite Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AS01294

Initial Pressure (psig): -1.19      Final Pressure (psig): 3.57

Container Dilution Factor: 1.35

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	0.016	0.14	0.011	0.0044	0.037	0.0032	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.034	0.0084	ND	0.0074	0.0018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.034	0.0074	ND	0.0074	0.0016	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.011	ND	0.025	0.0020	
108-88-3	Toluene	9.7	0.14	0.015	2.6	0.036	0.0039	
124-48-1	Dibromochloromethane	ND	0.034	0.012	ND	0.0040	0.0014	
106-93-4	1,2-Dibromoethane	ND	0.034	0.011	ND	0.0044	0.0014	
127-18-4	Tetrachloroethene	1.6	0.034	0.011	0.23	0.0050	0.0016	
108-90-7	Chlorobenzene	0.014	0.14	0.012	0.0031	0.029	0.0027	J
100-41-4	Ethylbenzene	1.0	0.14	0.013	0.24	0.031	0.0030	
179601-23-1	m,p-Xylenes	3.9	0.14	0.026	0.90	0.031	0.0059	
100-42-5	Styrene	0.51	0.14	0.010	0.12	0.032	0.0023	
95-47-6	o-Xylene	1.6	0.14	0.012	0.38	0.031	0.0028	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.034	0.0097	ND	0.0049	0.0014	
108-67-8	1,3,5-Trimethylbenzene	0.34	0.14	0.0099	0.070	0.027	0.0020	
95-63-6	1,2,4-Trimethylbenzene	1.2	0.14	0.011	0.25	0.027	0.0023	
541-73-1	1,3-Dichlorobenzene	ND	0.034	0.011	ND	0.0056	0.0019	
106-46-7	1,4-Dichlorobenzene	0.017	0.034	0.011	0.0027	0.0056	0.0018	J
95-50-1	1,2-Dichlorobenzene	ND	0.034	0.011	ND	0.0056	0.0019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.14	0.013	ND	0.014	0.0013	
120-82-1	1,2,4-Trichlorobenzene	0.23	0.068	0.018	0.031	0.0091	0.0024	
91-20-3	Naphthalene	0.61	0.14	0.022	0.12	0.026	0.0041	
87-68-3	Hexachlorobutadiene	ND	0.14	0.012	ND	0.013	0.0012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA006-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-012

**Test Code:** EPA TO-15 SIM  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19  
**Analyst:** Wida Ang  
**Sample Type:** 6.0 L Silonite Canister  
**Test Notes:**  
**Container ID:** AS01321

Date Collected: 2/15/18

Date Received: 2/16/18

Date Analyzed: 2/16/18

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.62      Final Pressure (psig): 3.65

Container Dilution Factor: 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.070	0.024	0.42	0.014	0.0048	
74-87-3	Chloromethane	0.40	0.070	0.027	0.20	0.034	0.013	
75-01-4	Vinyl Chloride		ND	0.035	0.011		0.014	0.0042
106-99-0	1,3-Butadiene	0.042		0.070	0.020	0.019	0.032	0.0089
74-83-9	Bromomethane	0.026		0.035	0.013	0.0067	0.0090	0.0034
75-00-3	Chloroethane	0.013		0.035	0.012	0.0050	0.013	0.0045
107-02-8	Acrolein	0.67		0.28	0.055	0.29	0.12	0.024
67-64-1	Acetone	22		3.5	0.078	9.1	1.5	0.033
75-69-4	Trichlorofluoromethane	2.0		0.070	0.021	0.35	0.012	0.0037
75-35-4	1,1-Dichloroethene		ND	0.035	0.012		0.0088	0.0030
75-09-2	Methylene Chloride	0.83		0.14	0.018	0.24	0.040	0.0052
76-13-1	Trichlorotrifluoroethane	0.37		0.035	0.012	0.049	0.0046	0.0016
156-60-5	trans-1,2-Dichloroethene		ND	0.035	0.010		0.0088	0.0026
75-34-3	1,1-Dichloroethane		ND	0.035	0.0085		0.0087	0.0021
1634-04-4	Methyl tert-Butyl Ether		ND	0.035	0.013		0.0097	0.0036
156-59-2	cis-1,2-Dichloroethene	0.067		0.035	0.013	0.017	0.0088	0.0032
67-66-3	Chloroform	0.21		0.14	0.025	0.043	0.029	0.0052
107-06-2	1,2-Dichloroethane	0.089		0.035	0.012	0.022	0.0087	0.0029
71-55-6	1,1,1-Trichloroethane	0.013		0.035	0.0083	0.0025	0.0064	0.0015
71-43-2	Benzene	1.1		0.11	0.028	0.33	0.033	0.0088
56-23-5	Carbon Tetrachloride	0.42		0.035	0.017	0.067	0.0056	0.0027
78-87-5	1,2-Dichloropropane	0.027		0.035	0.010	0.0058	0.0076	0.0022
75-27-4	Bromodichloromethane		ND	0.035	0.0097		0.0052	0.0014
79-01-6	Trichloroethene	0.10		0.035	0.012	0.019	0.0065	0.0022

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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B = Analyte detected in both the sample and associated method blank.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-LA006-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-012

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Silonite Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AS01321

Initial Pressure (psig): -1.62      Final Pressure (psig): 3.65

Container Dilution Factor: 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	0.016	0.14	0.012	0.0044	0.039	0.0033	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.035	0.0087	ND	0.0077	0.0019	
10061-02-6	trans-1,3-Dichloropropene	ND	0.035	0.0077	ND	0.0077	0.0017	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.011	ND	0.026	0.0020	
108-88-3	Toluene	4.2	0.14	0.015	1.1	0.037	0.0041	
124-48-1	Dibromochloromethane	0.018	0.035	0.012	0.0021	0.0041	0.0014	J
106-93-4	1,2-Dibromoethane	ND	0.035	0.011	ND	0.0046	0.0014	
127-18-4	Tetrachloroethene	1.6	0.035	0.011	0.23	0.0052	0.0017	
108-90-7	Chlorobenzene	0.014	0.14	0.013	0.0030	0.030	0.0028	J
100-41-4	Ethylbenzene	0.47	0.14	0.014	0.11	0.032	0.0031	
179601-23-1	m,p-Xylenes	1.6	0.14	0.027	0.37	0.032	0.0061	
100-42-5	Styrene	0.51	0.14	0.010	0.12	0.033	0.0024	
95-47-6	o-Xylene	0.68	0.14	0.012	0.16	0.032	0.0029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.035	0.010	ND	0.0051	0.0015	
108-67-8	1,3,5-Trimethylbenzene	0.18	0.14	0.010	0.037	0.028	0.0021	
95-63-6	1,2,4-Trimethylbenzene	0.63	0.14	0.012	0.13	0.028	0.0024	
541-73-1	1,3-Dichlorobenzene	ND	0.035	0.012	ND	0.0058	0.0020	
106-46-7	1,4-Dichlorobenzene	0.022	0.035	0.011	0.0036	0.0058	0.0019	J
95-50-1	1,2-Dichlorobenzene	ND	0.035	0.012	ND	0.0058	0.0019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.14	0.013	ND	0.014	0.0014	
120-82-1	1,2,4-Trichlorobenzene	0.032	0.070	0.018	0.0043	0.0094	0.0025	J
91-20-3	Naphthalene	0.36	0.14	0.022	0.068	0.027	0.0043	
87-68-3	Hexachlorobutadiene	ND	0.14	0.013	ND	0.013	0.0012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA001-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-014

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Silonite Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AS01292

Initial Pressure (psig): -1.49      Final Pressure (psig): 3.54

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.069	0.023	0.43	0.014	0.0047	
74-87-3	Chloromethane	0.39	0.069	0.026	0.19	0.033	0.013	
75-01-4	Vinyl Chloride	0.19	0.035	0.010	0.076	0.014	0.0041	
106-99-0	1,3-Butadiene	0.12	0.069	0.019	0.056	0.031	0.0087	
74-83-9	Bromomethane	0.041	0.035	0.013	0.011	0.0089	0.0033	
75-00-3	Chloroethane	0.028	0.035	0.012	0.011	0.013	0.0044	J
107-02-8	Acrolein	0.40	0.28	0.054	0.17	0.12	0.023	
67-64-1	Acetone	26	3.5	0.077	11	1.5	0.033	B
75-69-4	Trichlorofluoromethane	1.5	0.069	0.021	0.27	0.012	0.0037	
75-35-4	1,1-Dichloroethene	ND	0.035	0.012	ND	0.0087	0.0030	
75-09-2	Methylene Chloride	2.3	0.14	0.018	0.66	0.040	0.0052	
76-13-1	Trichlorotrifluoroethane	0.36	0.035	0.012	0.047	0.0045	0.0016	
156-60-5	trans-1,2-Dichloroethene	0.062	0.035	0.010	0.016	0.0087	0.0025	
75-34-3	1,1-Dichloroethane	0.035	0.035	0.0084	0.0085	0.0085	0.0021	
1634-04-4	Methyl tert-Butyl Ether	0.18	0.035	0.013	0.049	0.0096	0.0036	
156-59-2	cis-1,2-Dichloroethene	1.2	0.035	0.013	0.31	0.0087	0.0032	
67-66-3	Chloroform	0.16	0.14	0.025	0.033	0.028	0.0051	
107-06-2	1,2-Dichloroethane	0.19	0.035	0.012	0.048	0.0085	0.0029	
71-55-6	1,1,1-Trichloroethane	0.022	0.035	0.0081	0.0039	0.0063	0.0015	J
71-43-2	Benzene	1.5	0.10	0.028	0.47	0.032	0.0086	
56-23-5	Carbon Tetrachloride	0.48	0.035	0.017	0.076	0.0055	0.0026	
78-87-5	1,2-Dichloropropane	0.022	0.035	0.010	0.0047	0.0075	0.0022	J
75-27-4	Bromodichloromethane	ND	0.035	0.0095	ND	0.0052	0.0014	
79-01-6	Trichloroethene	0.57	0.035	0.012	0.11	0.0064	0.0022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** Weston Solutions, Inc.  
**Client Sample ID:** P005-IA001-180214-01  
**Client Project ID:** RFB 480

ALS Project ID: P1800714  
 ALS Sample ID: P1800714-014

**Test Code:** EPA TO-15 SIM      **Date Collected:** 2/15/18  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19      **Date Received:** 2/16/18  
**Analyst:** Wida Ang      **Date Analyzed:** 2/16/18  
**Sample Type:** 6.0 L Silonite Canister      **Volume(s) Analyzed:** 1.00 Liter(s)  
**Test Notes:**  
**Container ID:** AS01292

Initial Pressure (psig): -1.49      Final Pressure (psig): 3.54

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
123-91-1	1,4-Dioxane	0.21	0.14	0.012	0.058	0.038	0.0033	
10061-01-5	cis-1,3-Dichloropropene	ND	0.035	0.0086	ND	0.0076	0.0019	
10061-02-6	trans-1,3-Dichloropropene	ND	0.035	0.0076	ND	0.0076	0.0017	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.011	ND	0.025	0.0020	
108-88-3	Toluene	4.3	0.14	0.015	1.1	0.037	0.0040	
124-48-1	Dibromochloromethane	0.015	0.035	0.012	0.0017	0.0041	0.0014	J
106-93-4	1,2-Dibromoethane	ND	0.035	0.011	ND	0.0045	0.0014	
127-18-4	Tetrachloroethene	4.2	0.035	0.011	0.62	0.0051	0.0017	
108-90-7	Chlorobenzene	0.013	0.14	0.013	0.0028	0.030	0.0028	J
100-41-4	Ethylbenzene	0.57	0.14	0.013	0.13	0.032	0.0031	
179601-23-1	m,p-Xylenes	2.2	0.14	0.026	0.52	0.032	0.0060	
100-42-5	Styrene	0.33	0.14	0.010	0.077	0.032	0.0024	
95-47-6	o-Xylene	1.0	0.14	0.012	0.24	0.032	0.0028	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.035	0.0099	ND	0.0050	0.0014	
108-67-8	1,3,5-Trimethylbenzene	0.22	0.14	0.010	0.045	0.028	0.0021	
95-63-6	1,2,4-Trimethylbenzene	0.77	0.14	0.011	0.16	0.028	0.0023	
541-73-1	1,3-Dichlorobenzene	ND	0.035	0.012	ND	0.0057	0.0020	
106-46-7	1,4-Dichlorobenzene	0.019	0.035	0.011	0.0032	0.0057	0.0019	J
95-50-1	1,2-Dichlorobenzene	ND	0.035	0.011	ND	0.0057	0.0019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.14	0.013	ND	0.014	0.0014	
120-82-1	1,2,4-Trichlorobenzene	0.055	0.069	0.018	0.0074	0.0093	0.0024	J
91-20-3	Naphthalene	0.42	0.14	0.022	0.081	0.026	0.0042	
87-68-3	Hexachlorobutadiene	ND	0.14	0.013	ND	0.013	0.0012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

WESTON SOLUTIONS, INC

Date Shipped: 2/15/2018

Carrier Name: FedEx

Airbill No: 4056 4798 3693

## CHAIN OF CUSTODY RECORD

Case #: 480

Contact Name: Brando Chacon

Contact Phone: (732) 585-4409

P1020714

No: 2-021518-144102-0007

Cooler #:

Lab: ALS Environmental

Lab Phone: 805-526-7161

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Canister #	Regulator	Start Pressure	Stop Pressure	Start Date	Start Time	Stop Date	Stop Time
1	P001-AA001-180214-01	P001-AA001	VOCs via TO-15 (SIM)	Ambient Air	2/15/2018	12:22	1	Summa Canister	AC01890	SFC00182	-29	-6	2/14/2018	12:42:00 PM	2/15/2018	12:22:00 PM
2	P002-IA001-180214-01	P002-IA001	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:53	1	Summa Canister	AC02147	FCA00891	-29	-3	2/14/2018	12:16:00 PM	2/15/2018	10:53:00 AM
3	P002-IA002-180214-01	P002-IA002	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:58	1	Summa Canister	S02184	FCA01029	-29	-2	2/14/2018	12:27:00 PM	2/15/2018	10:58:00 AM
4	P002-IA003-180214-01	P002-IA003	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	11:05	1	Summa Canister	AS01293	FCA00881	-29	-6	2/14/2018	12:37:00 PM	2/15/2018	11:05:00 AM
5	P002-SG001-180214-01	P002-SG001	VOCs via TO-15 (SCAN)	Soil Gas	2/15/2018	10:52	1	Summa Canister	SC00104	FCR00244	-29	-5	2/14/2018	12:17:00 PM	2/15/2018	10:52:00 AM
6	P002-SG002-180214-01	P002-SG002	VOCs via TO-15 (SCAN)	Soil Gas	2/15/2018	10:58	1	Summa Canister	AS01319	FCR00194	-29	-2	2/14/2018	12:26:00 PM	2/15/2018	10:59:00 AM
7	P002-SG003-180214-01	P002-SG003	VOCs via TO-15 (SCAN)	Soil Gas	2/15/2018	11:04	1	Summa Canister	SC01499	FCR00343	-29	-5	2/14/2018	12:35:00 PM	2/15/2018	11:04:00 AM
8	P005-IA002-180214-01	P005-IA002	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:12	1	Summa Canister	AS01322	FCA01072	-29	-3.5	2/14/2018	11:32:00 AM	2/15/2018	10:12:00 AM

5 of 542

Special Instructions: RFP: 480 - Weston Solutions

PO Number RST 2 Com#EP-S2-14-01

Analysis: VOC TO-15

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	<i>Beth Zinkin (USEPA)</i>	2/15/18 10:00	<i>Heidi L. Perry ALS</i>	2-16-18/0930	

## WESTON SOLUTIONS, INC

Date Shipped: 2/15/2018

Carrier Name: FedEx

Airbill No: 4056 4798 3693

## CHAIN OF CUSTODY RECORD

Case #: 480

Contact Name: Brando Chacon

Contact Phone: (732) 585-4409

P1800714  
No: 2-021518-144102-0007

Cooler #:

Lab: ALS Environmental

Lab Phone: 805-526-7161

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Num b Cont	Container	Canister #	Regulator	Start Pressure	Stop Pressure	Start Date	Start Time	Stop Date	Stop Time
7	P005-IA003-180214-01	P005-IA003	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:25	1	Summa Canister	AS01058	FCA00576	-29	-2	2/14/2018	11:43:0	2/15/2018	10:25:0
10	P005-IA004-180214-01	P005-IA004	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:37	1	Summa Canister	AC01844	FCA00959	-29	-25	2/14/2018	11:58:0	2/15/2018	10:37:0
11	P005-IA005-180214-01	P005-IA005	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:41	1	Summa Canister	AC01294	FCA01081	-28	-5	2/14/2018	12:03:0	2/15/2018	10:41:0
12	P005-IA006-180214-01	P005-IA006	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:45	1	Summa Canister	AS01321	SFC00132	-29	-3	2/14/2018	12:01:0	2/15/2018	10:45:0
13	P005-SG003-180214-01	P005-SG003	VOCs via TO-15 (SCAN)	Soil Gas	2/15/2018	10:24	1	Summa Canister	SC01903	FCR00182	-29	-6	2/14/2018	11:45:0	2/15/2018	10:24:0
14	P005-IA001-180214-01	P005-IA001	VOCs via TO-15 (SIM)	Indoor Air	2/15/2018	10:05	1	Summa Canister	AS01292	FCA00530	-24	-4	2/14/2018	11:16:0	2/15/2018	10:06:0
15	P005-SG002-180214-01	P005-SG002	VOCs via TO-15 (SCAN)	Soil Gas	2/15/2018	10:13	1	Summa Canister	SC01583	FCR00261	-29	-6	2/14/2018	11:29:0	2/15/2018	10:13:0

Special Instructions: RFP: 480 - Weston Solutions

PO Number RST 2 Con#EP-S2-14-01

Analysis: VOC TO-15

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analysis	Pete Juchner (USEPA)	2/15/18 1600n	Han Peay ALS	2-16-18/0930	